MIS5206 Protecting Information Assets – Unit #3b –

Case Study #3 – A Hospital Catches the "Millennium Bug"

A Hospital Catches the "Millennium Bug"



FLETCHER ALLEN TO UVM MEDICAL CENTER

The University of Vermont Medical Center changed its name from Fletcher Allen Health Care in November 2014 to more accurately reflect the quality of care and cutting-edge research we provide.











Case Team Exercise

- 1. Describe the IT threat caused by the Year 2000 bug
- 2. From an information security perspective, how would you characterize the millennium ("Y2k") bug and assess the risk from it that Fletcher-Allen Health Care faced in May 1998?
- 3. How would you assess the hospital's readiness to control the risk?

 Be sure to provide details to support your approach to the assessment
- 4. How is the Year 2038 problem similar to and different from the Year 2000 bug?

1. Describe the IT threat caused by the Year 2000 bug

"Millennium" or "Y2K" Bug

A useful case study for learning about enterprise organizational IT risk management given proactive knowledge of a known pervasive threat

- Last century, software and firmware developers used two-digit year fields, instead of four-digit
 year fields in their code to reduce memory usage requirements
- Examples of years captured in a 2 digit data field
 - "99" used in year portion of date fields for "1999"
 - 99 + 1 = 00 rather than 1999 + 1 = 2000
 - "98" used in year fields for "1998"...
 - "00" in year fields as either "1900" or zero or "2000"
- Affected software included...
 - Microsoft Excel
 - COBOL, C, JavaScript,... programming Languages
 - Unix Source Code Control System
 - **—** ...



2. From an information security perspective, how would you characterize the millennium ("Y2k") bug and assess the risk from it that Fletcher-Allen Health Care faced in May 1998?

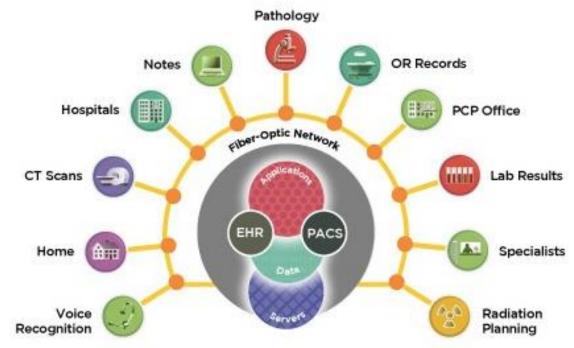
	POTENTIAL IMPACT		
Security Objective	LOW	MODERATE	HIGH
Confidentiality Preserving authorized restrictions on information access and disclosure, including means for protecting personal privacy and proprietary information. [44 U.S.C., SEC. 3542]	The unauthorized disclosure of information could be expected to have a limited adverse effect on organizational operations, organizational assets, or individuals.	The unauthorized disclosure of information could be expected to have a serious adverse effect on organizational operations, organizational assets, or individuals.	The unauthorized disclosure of information could be expected to have a severe or catastrophic adverse effect on organizational operations, organizational assets, or individuals.
Integrity Guarding against improper information modification or destruction, and includes ensuring information non-repudiation and authenticity. [44 U.S.C., SEC. 3542]	The unauthorized modification or destruction of information could be expected to have a limited adverse effect on organizational operations, organizational assets, or individuals.	The unauthorized modification or destruction of information could be expected to have a serious adverse effect on organizational operations, organizational assets, or individuals.	The unauthorized modification or destruction of information could be expected to have a severe or catastrophic adverse effect on organizational operations, organizational assets, or individuals.
Availability Ensuring timely and reliable access to and use of information. [44 U.S.C., SEC. 3542]	The disruption of access to or use of information or an information system could be expected to have a limited adverse effect on organizational operations, organizational assets, or individuals.	The disruption of access to or use of information or an information system could be expected to have a serious adverse effect on organizational operations, organizational assets, or individuals.	The disruption of access to or use of information or an information system could be expected to have a severe or catastrophic adverse effect on organizational operations, organizational assets, or individuals.



Fletcher-Allen Health Care

May 1998...

 Millennium bug or "Y2K problem" affected availability of administrative and clinical software and other devices and systems containing embedded microprocessors



Y2K Problem Risk Management Plan...

- 1. Inventory Identify hardware & software with Y2K problem
- 2. Analysis Examine code for date fields, determine which to fix
- 3. Remediation Alter the code for Y2K compliance
- 4. Testing Ensure that altered code produces correct results
- 5. Migration Put new code into production

3. How would you assess the hospital's readiness to control the risk?

Be sure to provide details to support your assessment

Asset Inventory

Applications Supported by Fletcher-Allen Information Services			
System Name	Y2K OK?	Plans for Compliance	
IBM Encoder – Medical Records Encoder	?	Unknown	
IBM Encoder – Medical Records Encoder M/F	?	Replace – 3M Encoder, IDX Integrated	
ANSOS	?		
Applix	Y	Vendor indicates compliance	
Bones	?	Retire/Obsolete	
Clinical Financial Information System (CFI5)	?	Retire/Obsolete	
Clinical Data Editor	?	Retire/Obsolete	
Cloverleaf/HCI Interface Engine	?	Vendor indicates compliance	
Data Repository – Oacis	?	Vendor indicates compliance	
Data Warehouse – Cognos	?	Vendor indicates compliance	
Data Warehouse – Data Extracts	?		
Data Warehouse – Metaphor	?	Retire	
Data Warehouse – Redbrick	?	Vendor indicates compliance	
Dictaphone -Digital Dictation, Enterprise Voice	Y	Vendor indicates compliance	
Dictaphone – Enterprise Text	Y	Vendor indicates compliance	
ORG Grouper	?	Retire/Obsolete	
First Coast - Accounts Payable	?	Retire – by the Year 2000	
First Coast - ADT	?	Retire – by the Year 2000	
First Coast -Fixed Assets	?	Retire/Obsolete	
First Coast -General Ledger	?	Retire/Obsolete	
First Coast - Materials Management	?	Retire – by the Year 2000	
First Coast -Medical Records	?	Retire – by the Year 2000	
First Coast - Order Communications	?	Retire/Obsolete	
First Coast - Patient Accounting	?	Retire – by the Year 2000	
First Coast- Payroll/Timekeeping	?	Retire – by the Year 2000	
First Coast – Surgery Management	?	Replace - OR505	
First Coast – Work/Wellness, Walk	?	Retire/Obsolete	
Global – Accounts Payble	N	Vendor Upgrade – Suite 2000, available 3/9/1998	
Global – Fixed Assets	N	Vendor Upgrade – Suite 2000, available 3/9/1998	
Global – General Ledger	N	Vendor Upgrade – Suite 2000, available 3/9/1998	
Global – Global Link (EDI)	N	Upgrade to Version 5.10 – currently available	
Global - Global View Report Writer	N	Vendor Upgrade – Suite 2000, available 3/9/1998	
Global – Materials Management	N	Vendor Upgrade – Suite 2000, available 3/9/1998	

System Name	Applications Supported b	y Fletcher-Al	len Information Services
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Asset Inventory

Y	N	?	Totals
		26	26
	1	31	32
		7	7
9		8	17
6	18	1	25
15	19	73	107
			1 31 7 9 8 6 18 1

Y2K status of 73 applications = questionable ("?")

Decisions needed:

- **26 to retire** may not need to analyze these systems
- **31 to replace** with new software (i.e. Meditech, IDX, Peoplesoft, ORSOS, ANSAS or other projects)
- **7 applications are undecided** (e.g. IBM Medical Records Encoder) Solution may be to do in-house analysis and remediation or replacement
- 8 need to be assessed for vendor compliance
- 1 needs to be assessed for vendor upgrade

	Y2K OK?	Plans for Compliance
System Name IBM Encoder – Medical Records Encoder	?	Unknown
IBM Encoder - Medical Records Encoder M/F	?	Replace - 3M Encoder, IDX Integrated
AN505	?	
Applix	Y	Vendor indicates compliance
Bones	?	Retire/Obsolete Retire/Obsolete
Clinical Financial Information System (CFIS) Clinical Data Editor	2	Retre/Obsolete Retre/Obsolete
Clinical Data Editor		
Cloverlea/HCI Interface Engine Data Repository – Oacis	?	Vendor indicates compliance Vendor indicates compliance
Data Warehouse - Cognos		Vendor indicates compliance
Data Warehouse - Data Extracts	?	Tensor records companie
Data Warehouse - Metaphor		Retre
Data Warehouse - Redbrick	?	Vendor indicates compliance
Dictaphone - Digital Dictation. Enterprise Voice	Y	Vendor indicates compliance
Dictaphone - Digital Dictation, Enterprise Voice Dictaphone - Enterprise Text	Y	Vendor indicates compliance
ORG Grouper First Coast - Accounts Payable	?	Retre/Obsolete
First Coast - Accounts Payable		Refre - by the Year 2000
First Coast - ADT	?	Retire - by the Year 2000
First Coast -Fixed Assets First Coast -General Ledger	?	Retre/Obsolete
First Coast - General Ledger	?	Retire/Obsolete
First Coast - Materials Management First Coast - Medical Records First Coast - Order Communications	?	Retire - by the Year 2000 Retire - by the Year 2000
First Coast -Medical Records	?	Retre - by the Year 2000
First Coast - Order Communications	?	Retire/Obsolete
First Coast - Patient Accounting First Coast - Payroll/Timekeeping First Coast - Surgery Management First Coast - Wont/Wellness, Walk		Retire – by the Year 2000 Retire – by the Year 2000 Replace – ORSOS Retire/Obsolete
First Coast - Supply Management	?	Postora - OPEGE
First Coast - Gargery Management	2	Ratire/Ohsolate
Gintol - Accounts Double	N	Vendor Lingrade - Suite 2000 available 3/9/1998
Global – Accounts Payole Global – Fixed Assets Global – General Ledger	N	Vendor Upgrade – Suite 2000, available 3/9/1998 Vendor Upgrade – Suite 2000, available 3/9/1998 Vendor Upgrade – Suite 2000, available 3/9/1998
Giotal - General Ledger	N	Vendor Uporade – Suite 2000, available 3/9/1998
	N	Upgrade to Version 5.10 – currently available Vendor Upgrade – Suite 2000, available 3/9/1998 Vendor Upgrade – Suite 2000, available 3/9/1998
Global - Global View Report Writer	N	Vendor Upgrade - Suite 2000, available 3/9/1998
Global – Global View Report Writer Global – Materials Management	N	Vendor Upgrade - Suite 2000, available 3/9/1998
HIS - Accounts Receivable	?	Retire – by the year 20000
HI5 - Address Label System	?	Replace – Under Analysis
HIS - Admitting	?	Replaced – IDX
HIS - Calendar HIS - Census Punctions and History	?	Unknown Unknown
HIS -Census Functions and History	?	Unknown
HI5 - Charge Entry System	7	Replace – IDX or Meditech
HIS - Common Edit (CEDS)	T.	Refire by 2000, when HI55 goes away
HI5 - Computer Biting (COMU) HI5 - Department Patient Notes	?	Retire by 2000, when HISS goes away
HIS - Department Patient Notes HIS - Dietary	7	Replace - Meditech Replace - Meditech
HIS - Discharge History		Retire - by the year 2000
His Direbase Summan	?	Resisco Data Reservices
HIS - Discharge Summary HIS - Emergency Department Log	2	Replace - Data Repository Replaced - IDX
HIS - Event Booking	9	Replace – under analysis
HIS - Financial Decision Support (Feed Payroll)	?	Replace - Peoplesoff
HI5 - Game	2	Replace - Peoplesoft Refire by 2000, when HISS goes away
HIS - Interface	?	Retire by 2000, when HISS goes away
HIS - Interface HIS - Lab Order Entry/Results Reporting	?	Refire by 2000, when HISS goes away Replace – Meditech
HIS - Locator	?	Intallitate
HIS - Monitor	?	Refre by 2000, when HISS ones away
HIS - Notebook	?	Replace - under analysis Replaced - IDX
HIS - Nurse Appointment Scheduling	?	Replaced - IDX
HIS - Nursing Caredex HIS - Nursing Notes	?	Replace - Meditech Replace - Meditech
HIS - Nursing Notes	?	Replace - Meditech
HIS - Office (Policies/Procedures, Word Processing)		Retire Replace - ORSOS
HIS - Operating Room Activity HIS - Order Communications (nursing)	?	Replace - ORSOS
HIS - Order Communications (nursing)	Y	Replace - Meditech
HIS - Patient Appointment Scheduling HIS - Patient Billing	?	Retire/Obsolete
HIS - Patient Billing	?	Replaced - IDX
HIS - Patient List Print Programs - Nursing	?	Replace - Meditech Replace - PeopleSoft Replace - Meditech
HIS - Payroll	?	Replace - PeopleSoft
HIS - Pharmacy	2	Replace - Meditech
IIIS - Pagroii HIS - Physician Passen List - Nursing HIS - Physician Passen List - Nursing HIS - Problem Analysis and Recording HIS - Problem	2	Replace - Meditech Replace - Meditech Replace - under analysis Retine by 2000, when HISS goes away Pentage IDV Englacem, Mid 1999
UIO - Propietii Analysis and Recording	2	Potentia 2000 when UICO anno trans
UIO - Frogram inventory	2	Postage - IDV Padialage Mid 1999
HID - Nationally	5	Petro In 2000
UIC Paged Water	2	Paties by 2000 where UICO acces trans-
HIS - Radiology HIS - Renitances HIS - Report Writers HIS - Security Program Inv. HIS - Security Program Inv. HIS - Security Program Inv.	2	Regince – DIX Radiology, Mid-1998 Retine by 2000 Retine by 2000 Retine by 2000 Retine by 2000 Retine by 2000, when HISS goes away Retine by 2000, when HISS goes away Retine by 2000, when HISS goes away Replace – ORSOS, mid 1998
HIS -Surgical Preference Card	?	Replace - ORSOS, mid 1998
HIS - Tele Process Management (CPVT)	?	Retine by 2000, when HISS goes away Replace - One Staff???? Replace - CANSURFAC
HIS - Time(Attendance (Part of Payroll)	?	Replace - One Staff????
HIS - Tumor Registry	?	Replace -CANSURFAC
HIS - Tela Process Management (CPVT) HIS - Time/Attendence (Part of Paycoli) HIS - Turner Registry UN - ADM (Ugande Tool), V. 8 UX - Bülling/Accounts Receivable, V. 7 UX - Char Completion	N	Upgrade to New Release – Version 8.4 in 1998 Upgrade to New Release – Version 8.4 in 1998
IDX -Billing/Accounts Receivable, V. 7	N	Upgrade to New Release - Version 8.4 in 1998
	N	Upgrade to New Release - Version 8.4 in 1998
IDX - Chart Completion		
IDX - Chart Completion IDX - Chart Tracking, V. 7	N	Upgrade to New Release - Version 8.4 in 1998
IDX - Chart Completion IDX - Chart Tracking, V. 7 IDX - Correspondence Log	N N	Upgrade to New Release - Version 8.4 in 1998 Upgrade to New Release - Version 8.4 in 1998
IDX - Chart Tracking, V. 7 IDX - Correspondence Log	N N N	Upgrade to New Release – Version 8.4 in 1998 Upgrade to New Release – Version 8.4 in 1998 Upgrade to New Release – Version 8.4 in 1998
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DX - Chart Tracking, V. 7 DX - Comespondence Log DX - DBMS Report Whiter/AES V. 7 DX - EDI V.S DX - EDI V.S DX - EDI V.S	N N N N N N N	Upgrade to New Release – Version 8.4 in 1998 Upgrade to New Release – Version 8.4 in 1998 Upgrade to New Release – Version 8.4 in 1998 Upgrade to New Release – Version 8.4 in 1998 Upgrade to New Release – Version 8.4 in 1998 Upgrade to New Release – Version 8.4 in 1998
DX - Chart Teaching V. T DX - Convergence Log DX - Cells/Segord Winter/AS V. T DX - Convergence Log DX - Cells/Segord Winter/AS V. T DX - Facusater Form Generator (EFG), V. T DX - Facusater Form Generator (EFG), V. T DX - Hospide Patient Ace, (ADTHPRA), V. B DX - Hospide Patient Ace, (ADTHPRA), V. B DX - Managed Cells Systems, V. B DX - Managed Cells Systems, V. B DX - Managed Cells Systems, V. B	N N N N N N	Upgrade to New Polisates — Version 6.4 in 1998 Upgrade to New Polisates — Ver
BXChart Tracking, V. T DX. Comesponders Log DXClassSReport Winters/RS V. T DX. EDV. R. B DX. Encounter Form Generator (EFG), V. T DX. EDV. Shouter Form Generator (EFG), V. T DX. Encounter Form Generator (EFG), V. T DX Hospida Patient Acc. (ADTHPRA), V. B DX Lindrados DX Managed Cale Systems, V. B DX Managed Cale Systems, V. B DX Fance Conducting (Ecbel)	N N N N N N N	Upgrade to New Polisates — Version 6.4 in 1998 Upgrade to New Polisates — Ver
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What is the risk of replacement projects?

Disposition: Y2K ok?	Y	N	?	Totals
Retire or Retire/Obsolete			26	26
Replace		1	31	32
Unknown (not decided)			7	7
Vendor indicates compliance	9		8	17
Vendor upgrade planned	6	18	1	25
Totals	15	19	73	107

Risks: Large replacement projects often fall behind schedule

- What impacts would falling behind scheduled cause?
- Would it be prudent to plan to remediate the 32 applications?
- Would it also be prudent to plan to remediate the 18 systems which the vendors plan to upgrade?

Y2K OK? Plans for Compliance Retire/Obsolete Retire - by the Year 20 Replace - ORSOS Upgrade to Version 5.10 - currently available Replace - IDX or Medited Retire by 2000, when HISS opes awa HIS - Discharge Histor Retire - by the year 200 Retire by 2000, when HISS goes away HIS - Interface HIS - Lab Order Entry/Results Reporting Replace - Medite Replace - OR50: Retire/Obsolete Replaced - ID) Replace - PeopleSot Replace - Meditech Retire/Obsolete

MIS 5206 Protecting Information Assets

What information is not in the table that we would like to see?

- Completion dates for each application to help in planning
- Relative size of each application (i.e. level of effort)
- Departmental applications not supported by the central Information System organization
- Facilities controls with embedded microprocessors not included in the inventory (e.g. elevators, HVAC, power systems,...)

All missing from this exhibit are...

Patient Care Risks	Administrative Risks

Applications Supported by	Fletcher-Alle	en Information Services
ystem Name	Y2K OK?	Plans for Compliance
ystem Name M. Encoder – Medical Records Encoder M. Encoder – Medical Records Encoder M/F NSOS	7	Unknown Replace – 3M Encoder, IDX Integrated
N505	7	
ppix	Y	Vendor indicates compliance
ones inical Financial Information System (CFIS) inical Data Editor	1	Retire/Obsolete Retire/Obsolete
inical Data Editor	1	Retire/Osciete Retire/Osciete
loverleaf HCI Interface Engine	7	Vendor indicates compliance Vendor indicates compliance
ata Repository – Oacis ata Warehouse – Cognos	7	Vendor indicates compliance Vendor indicates compliance
ata Warehouse – Data Extracts	7	
ata Warehouse – Metaphor ata Warehouse – Redbrick	?	Retire Vendor indicates compliance
ictaphone - Dicital Dictation, Enterprise Voice	Y	Vendor indicates compliance
ictaphone - Digital Dictation, Enterprise Voice ictaphone - Enterprise Text RG Grouper	Y	Vendor indicates compliance
RG Grouper	?	Retire/Obsolete
rst Coast - Accounts Payable rst Coast - ADT	2	Retire - by the Year 2000 Retire - by the Year 2000
rst Coast - ADT rst Coast - Fixed Assets	7	Retire/Obsolete
rst Coast -General Ledger	?	Retire/Obsolete
rst Coast - Materials Management rst Coast - Medical Records	7	Retire – by the Year 2000 Retire – by the Year 2000
rst Coast - Order Communications	7	Retire/Obsolete
rst Coast - Order Communications rst Coast - Patient Accounting	7	Retire - by the Year 2000
	?	Retire - by the Year 2000
rst Coast – Surgery Management rst Coast – Work/Weliness, Walk	7	Replace - ORSOS Retne/Obsolete
rst Coast - Surgery Management rst Coast - Work/Weinerst, Walk lobal - Accounts Payble lobal - Föxed Assets	N	Vendor Lingrade - Suite 2000, available 3/9/1998
lobal – Fixed Assets	N	Vendor Upgrade – Suite 2000, available 3/9/1998
local – General Leager	N	Vendor Upgrade – Suité 2000, available 3/9/1998
lobal - Global Link (EDI) lobal - Global View Report Writer	N N	Upgrade to Version 5.10 – currently available Vendor Upgrade – Suite 2000, available 3/9/1998
lobal – Materials Management	N:	Vendor Upgrade – Suite 2000, available 3/9/1998
i5 - Accounts Receivable	7	Retire - by the year 20000
15 - Address Label System	7	Replace – Under Analysis
is - Calendar	7	Replaced – IDX Unknown
IS -Census Functions and History	?	Unknown
S - Charge Entry System	2	Replace - IDX or Meditech
IS - Common Edit (CEDS)	?	Retire by 2000, when HISS goes away
is - Computer billing (COMU) 15 - Department Patient Notes	2	Retire by 2000, when HISS goes away Replace – Meditech
is - Dietary	7	Replace - Meditech
15 - Discharge History	7	Retire – by the year 2000
15 - Discharge Summary	7	Replace - Data Repository
is - Emergency Department Log IS - Event Booking	7	Replaced - IDX Replace – under analysis
IS - Financial Decision Support (Feed Payroll)	7	Replace - Peoplesoft
i5 - Game	1	Retire by 2000, when HI55 goes away
15 - Interface	7	Retire by 2000, when HISS goes away
io - Lab Groen Endy Results Reporting	1	Replace - Meditech Intellidesk
is - Monitor	7	Retire by 2000, when HISS goes away
IS - Notebook	7	Replace – under analysis
IS - Nurse Appointment Scheduling	?	Replaced - IDX Replace - Macharit
i5 - Nursing Caresex I5 - Nursing Notes	7	Replace - Meditech Replace - Meditech
(5 - Office (Policies/Procedures, Word Processing)	*	Retire
5 - Operating Room Activity	7 7	Replace - ORSOS
S - Order Communications (nursing) S - Patent Appointment Scheduling S - Patent Billing S - Patent S - Surgial Pa	-	Replace – Meditech
S - Patient Appointment Scheduling	7	Retire/Obsolete
S - Patient List Print Programs - Nursing	?	Replaced – IDX Replace – Meditech
S - Payroll	?	Replace - PeopleSoft
S - Pharmacy	?	Replace - Meditech
S - Physician Patient List - Nursing S - Physician Analysis and Reconfer	7	Replace - Meditech Replace - under analysis
S - Program Inventory	7	Replace – under analysis Retire by 2000, when HISS goes away Replace HIN Refolers Mrd 1998
S - Radiology	7	
S - Remittances	7	
S - Servetu Perseam Inv	7	Retire by 2000, when HISS goes away Retire by 2000, when HISS goes away Retire by 2000, when HISS goes away Replace – ORSOS, mid 1999 Replace – ORSOS, mid 1999 Replace – One Staff????
S -Surgical Preference Card	7	Replace - ORSOS, mid 1998
S - Tele Process Management (CPVT)	?	Retire by 2000, when HISS goes away
S - Tele Process Management (CPVT) S - Timel/Ittendance (Part of Paynoll) S - Tumor Registry X - ADM (Upgrade Tool), V. 8	7	Replace - One Staff????
S - Tumor Registry	7 N	Replace - CANSURFAC Upgrade to New Release - Version 8.4 in 1998
	N	Upgrade to New Release – Version 6.4 in 1998 Upgrade to New Release – Version 8.4 in 1998
X – Chart Completion	N	Upgrade to New Release - Version 8.4 in 1998
X – Chart Completion X – Chart Tracking, V, 7	N.	Upgrade to New Release - Version 8.4 in 1998 Upgrade to New Release - Version 8.4 in 1998
X -Correspondence Log X -DBMSReport WriteriAES V. 7	N	Upgrade to New Release - Version 8.4 in 1998
	N N	Upgrade to New Release – Version 8,4 in 1998 Upgrade to New Release – Version 8,4 in 1998
	N	Upgrade to New Release - Version 8.4 in 1998
X - Encounter Form Generator (EFG), V. 7 X - EPNS (Sched. To ADT/HPA Link) X - Hospital Patient Acc. (ADT/HPA), V. 8 X - Interfaces	N.	Upgrade to New Release - Version 8.4 in 1998 Upgrade to New Release - Version 8.4 in 1998
X - Hospital Patient Acc. (ADT/HPA), V. 8	N	Upgrade to New Release - Version 8.4 in 1998 Upgrade to New Release - Version 8.4 in 1998
X - Interfaces	N N	Upgrade to New Release - Version 8.4 in 1998
X - Managed Care Systems, V. 8 X - Patient Scheduling (Sched)	N N	Upgrade to New Release - Version 8.4 in 1998 Upgrade to New Release - Version 8.4 in 1998
X - PCS (Paperless Coll), V. 7	N	Upgrade to New Release - Version 8.4 in 1998
X - Radiology	N	I Investe to New Palesce - Vention 8.4 in 1998
X -Reporting Modules (home grown)	N N	Upgrade to New Release - Version 8.4 in 1998 Upgrade to New Release - Version 8.4 in 1998
X - Radiology X - Reporting Modules (home grown) X - Secunity Plus, V. 7 X - Tumover Tool (TUS), v. 7	N N	Upgrade to New Release – Version 8.4 in 1998 Upgrade to New Release – Version 8.4 in 1998
X – Vipor Ver 1.1	N	Replace - Data Repository
edical Staff Info (Horizons)	7	Upgrade to New Release, available January 1998
X - Number 100 (100), V. Y. X - Vipor Ver 1.1. selical Staff Info (Honzons) editech BNet Obstetrica Record	?	Vendor upgrade – Available mid-1998
BNet Obstetrics Record BbScan 4	Y	Dinela indicates compliance Unkown
RSOS	7	Unkown Upgrade to new release, available June 1998
	2	Replace - New app. To access IDX
explesoft - Benefits Administration	Y	Vendor indicates compliance
oplesoft -HR Management System	Y	Vendor indicates compliance
SS Abstraction oppleant: Benefits Administration oppleant: Hernefits Administration oppleant: Hernefits Administration oppleant: Paywoll oppleant: Restract (Applicant Tracking) yocom — CIO Compass (Militation Review)	Y	Vendor indicates compliance Vendor indicates compliance
sycom - C/O Compass (Utilization Review)	2	
Account of the Control of the Contro		
	?	Vendor is working on a release Retire/Obsolete
		Retire/Obsolete Unknown
esource Scheduling (Fanny Allen system) nam Mailer - Lettership DIX TMEDNET (Email)	?	Retire/Obsolete

4. How is the Year 2038 problem similar to and different from the Year 2000 bug?

A signed 4-byte integer has a maximum value of 2,147,483,647, and this is where the Year 2038 problem comes from

- The maximum value of time before it rolls over to a negative (and invalid) value is 2,147,483,647, which translates into January 19, 2038
- On this date, any programs written in the 'C' programming language which use a standard time library will have problems with date calculations

How is the Year 2038 problem similar and different?

Most web-based systems and services that run over the Internet are based on Linux!

Linux and many programs are written are written in C programming language and suffer from the Year 2038 problem

- Most C programs use a library of routines called standard time library
- The standard time library assumes the beginning of time is January 1, 1970, at 12:00:00 a.m. This value is 0
- Any time/date value is expressed as the number of seconds following that zero value. So the time value is that many seconds past 12:00:00 a.m. on January 1, 1970
 - This is convenient because if you subtract any two values, you get the time difference between them in seconds
 - Other functions in the library are used to determine how many minutes/hours/days/months/years have passed between two times

Other questions if there is time...

Y2K exposed Fletcher-Allen to significant business and medical risks

Bob Sadlemire's boss Alan Wyman, tells him:

"You need to assure (the Board) that we have a solid process in place to deal with (the year 2000 problem)."

If you were Sadlemire, can you state that the process is "solid"? Why/why not?

Task Area	Exposures
1. Application Systems	Overall – will be in good shape
2. Technical Systems	None; manageable situation
3. Clinical Equipment	Not many issues identified or expected
4. Facilities	Few issues expected
5. Telecommunications	Procurement; local exchanges
6. Suppliers	Yet to determine; potentially significant
7. Payors	Staff and cash flow implications

Does the summary of Exhibit 1 "Agenda for upcoming Board's Patient Care and Systems Improvement committee meeting" seem misleading?

Y2K exposed Fletcher-Allen to significant business and medical risks

Bob Sadlemire's boss Alan Wyman, tells him:

"You need to assure (the Board) that we have a solid process in place to deal with (the year 2000 problem)."

What do you think of these instructions?

If you were Sadlemire, can you state that the process is "solid"? Why/why not?

How likely is it that Bob Sadlemire can guide the organization to achieve Y2K compliance in their critical medical and business processes?

Success of an enterprise-wide IT initiative is based on what?

...is not merely a technical problem to be "solved" by IT professionals

Implementation of new or altered enterprise systems will have a large impact on every business process

Therefore extensive participation and active oversight by influential senior managers is necessary!