Michael Mills, PhD, MSPH, PhD2 – 2B (in Health Management)
Program Director, CAMPEP Therapy Physics Program
University of Louisville

PROGRAM ADMINISTRATION THIS SHOULD BE A HELPFUL TALK - BUT YOU MAY HATE ME AT THE END!

Topics to Cover:

- Supply and Demand for Radiation Oncology Physicists 2009 – 2020
- Structure of the Program and the role of the Program Director
- Records Required to Administrate the Program and Available for Review
- Example of a Software Tool to Administrate a Therapy Residency Program
- Support for Administrating a Program within a changing Healthcare Financing Environment

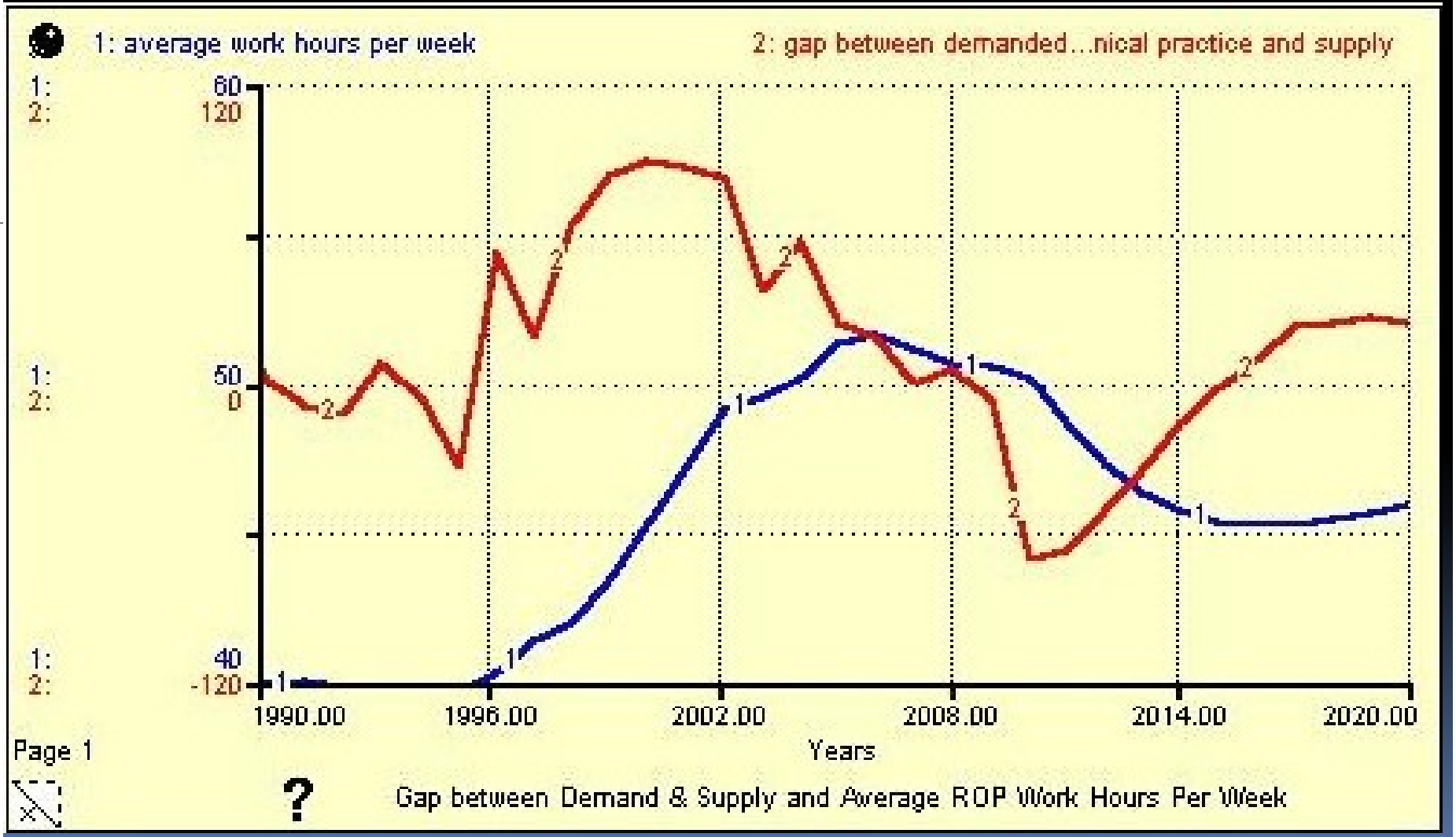
What are the Components of the Problem?

- Radiation Oncology Physicists (ROPs) face three major issues between 2009 and 2020:
  - The rate of retirement of ROPs will more than double as the baby boomers retire
  - Cancer incidence grows at ~2% per year, leading to an increase of ~30% by 2020
  - In 2014, ROPs must graduate from a residency program accredited by the Commission for the Accreditation of Medical Physics Education Programs (CAMPEP)

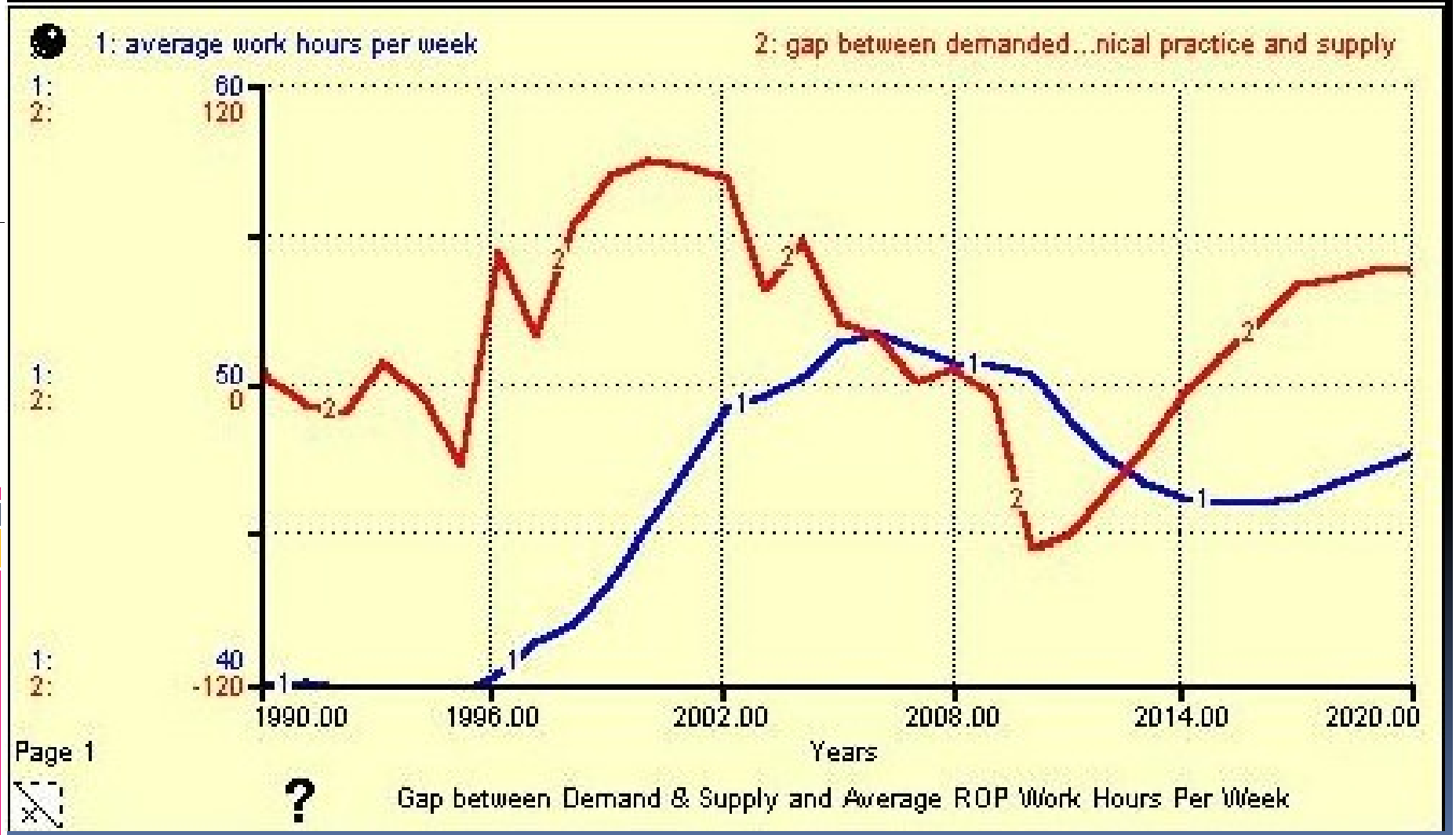
Demand/Supply Model Acknowledgements and Features

- John F. Heinbokel, Ph.D., P. Jeffrey Potash, Ph.D., Center of Interdisciplinary Excellence in System Dynamics, Burlington, VT
- Model is based on the prevalence of cancer patients treated with radiation oncology, the number of cancer patients managed by an ROP (Abt), the number of ROPs in the field (AAPM), the number entering the profession (ABR), the number exiting through retirement and other reasons (AAPM)

What about 2009 – 2020?
If we have 175 CAMPEP slots



What about 2009 – 2020?
If we have 150 CAMPEP slots

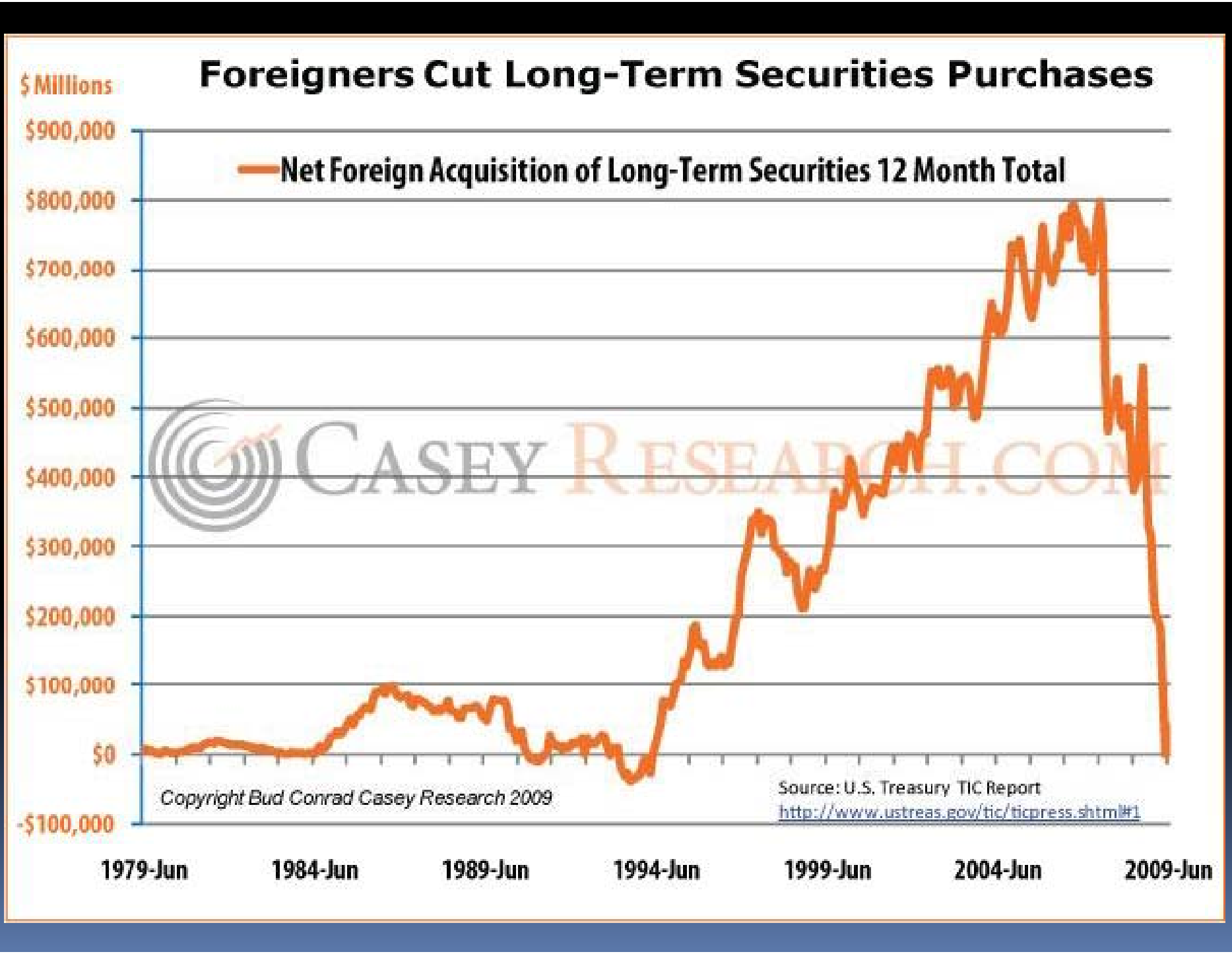


What about 2014 – 2020?
If we have 125 CAMPEP slots

What about 2014 – 2020?
If we have 100 CAMPEP slots

How many physicists must we train?

- Current number of CAMPEP Residents must increase from 25 to a minimum of 125 per year by 2020; 100 will not work!
- A more comfortable number would be 175
- We will not provide this manpower through academic residencies alone – we must develop distributed residency programs to meet the need!
- If we are unable to make enough ROPs, and the work week spirals out of control:
  - Will more medical physicists retire or leave the profession?
  - Will this impact patient care negatively?


Foreigners Cut Long-Term Securities Purchases
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$700,000
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$500,000
$400,000
$300,000
$200,000
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Net Foreign Acquisition of Long-Term Securities 12 Month Total
CASEY RESEARCH.COM
Copyright Bud Conrad Casey Research 2009
Source: U.S. Treasury TIC Report
http://www.ustreas.gov/tic/ticpress.shtml#1
1979-Jun
1984-Jun
1989-Jun
1994-Jun
1999-Jun
2004-Jun
2009-Jun

Structure within the Hospital or Medical Center

- The institution sponsoring the program of clinical training in radiation oncology physics should provide administrative support in terms of budget and space in addition to clinical and educational resources
- Adequate conference room and audiovisual facilities should be provided
- **Commitment to long-term funding of the program is essential – more so now than ever!**

Structure within the Hospital or Medical Center

- Who owns and/or provides the equipment?
- Who employs the physicists and residents?
- To whom does the program report administratively?
- What other associated training programs exist at this facility?
- What internal oversight mechanisms are present?

Role of the Program Director

- The program director is responsible for the whole of the radiation oncology physics training program. The program director:
  - (1) Must contribute sufficient time to the program to ensure adequate direction
  - (2) Is responsible for program organization and direction as well as instruction and supervision of physics residents
  - (3) Must arrange for the provision of adequate facilities, teaching staff, clinical resources, and educational resources
  - (4) Is responsible for the recruitment and appointment of physics residents and must ensure that the appointed residents meet the eligibility requirements
  - (5) Is responsible for ensuring the resident is making satisfactory progress, and for providing appropriate disciplinary action should this not be the case

Role of the Program Director

- The qualifications of the program director are as follows:
- (1) Must be certified in radiation oncology physics by an appropriate certifying board
- (2) Must have at least 7 years of full-time experience as a qualified medical physicist practicing in radiation oncology physics
- (3) Must be a full-time staff member, qualified in and practicing radiation oncology physics at the training facility.

Committees and Meetings

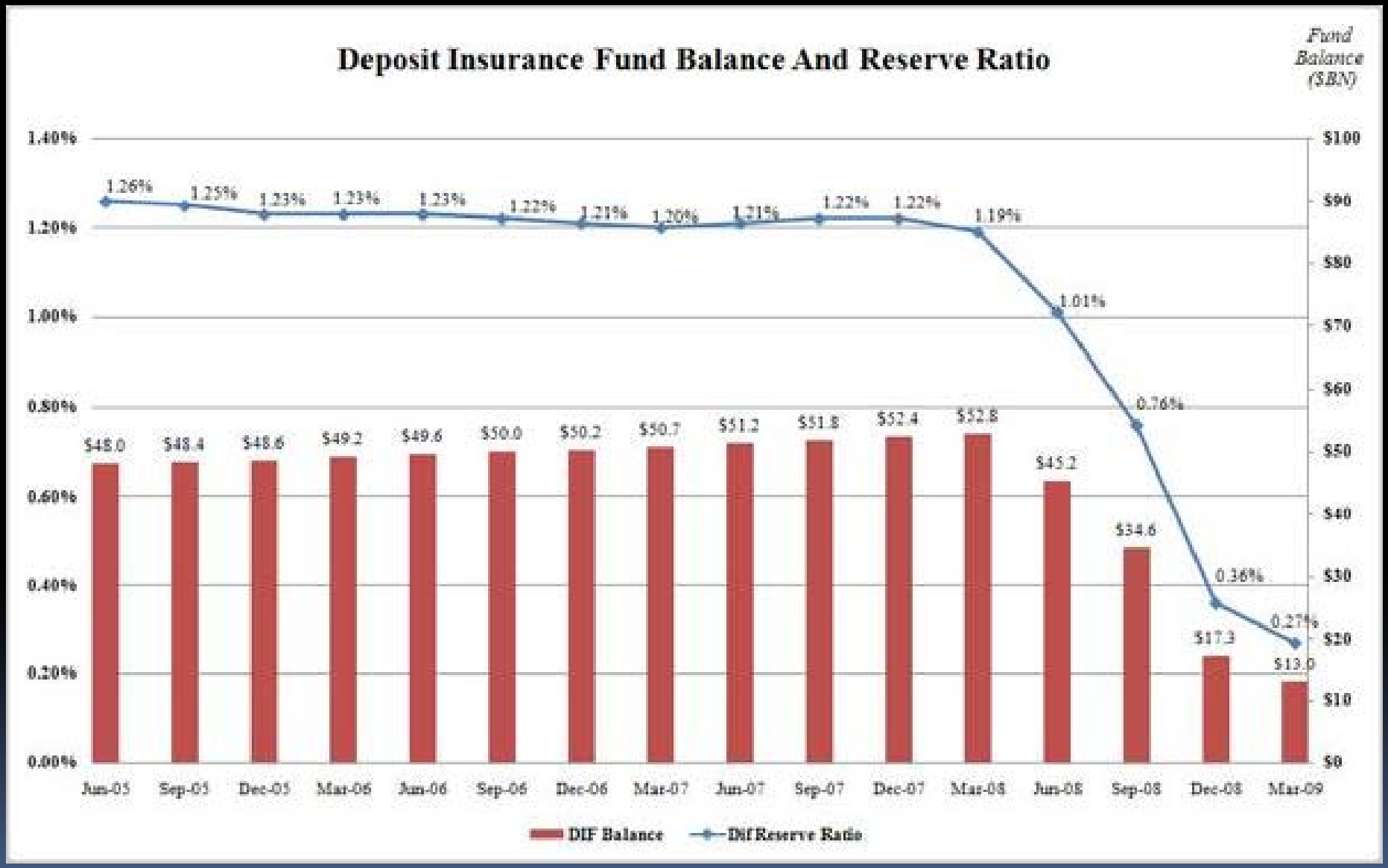
- Physics Residency Committee
  - Resident recruitment
  - Admission recommendations
  - Monitor physics resident's progress
  - Training curriculum
  - Orientation program
  - Committee meetings
  - Oral and written exams
  - Program review
- Internal Review Committee
  - Made up of appropriate individuals qualified to review the program
  - Meets periodically – once every 3-5 years

Records Available for Review

- Conferences – not graded, attendance and/or participation required
- Competencies – graded when performed
- Coursework:
  - Short courses without grades
  - Short courses with grades
  - Traditional courses with tests and a final examination
  - Non-traditional courses without testing
  - On-line training
  - Vendor training

Complexity

- A competency may be associated with a course
- A competency may be associated with a conference
- A course may be associated with a conference
- Any of these may be associated with specific mentors, patients, or machines
- Each event type, the associations, the mentors, the patients and the equipment must be captured on an ongoing basis to provide proper documentation for a residency program
- This is an onerous task!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Mar-06
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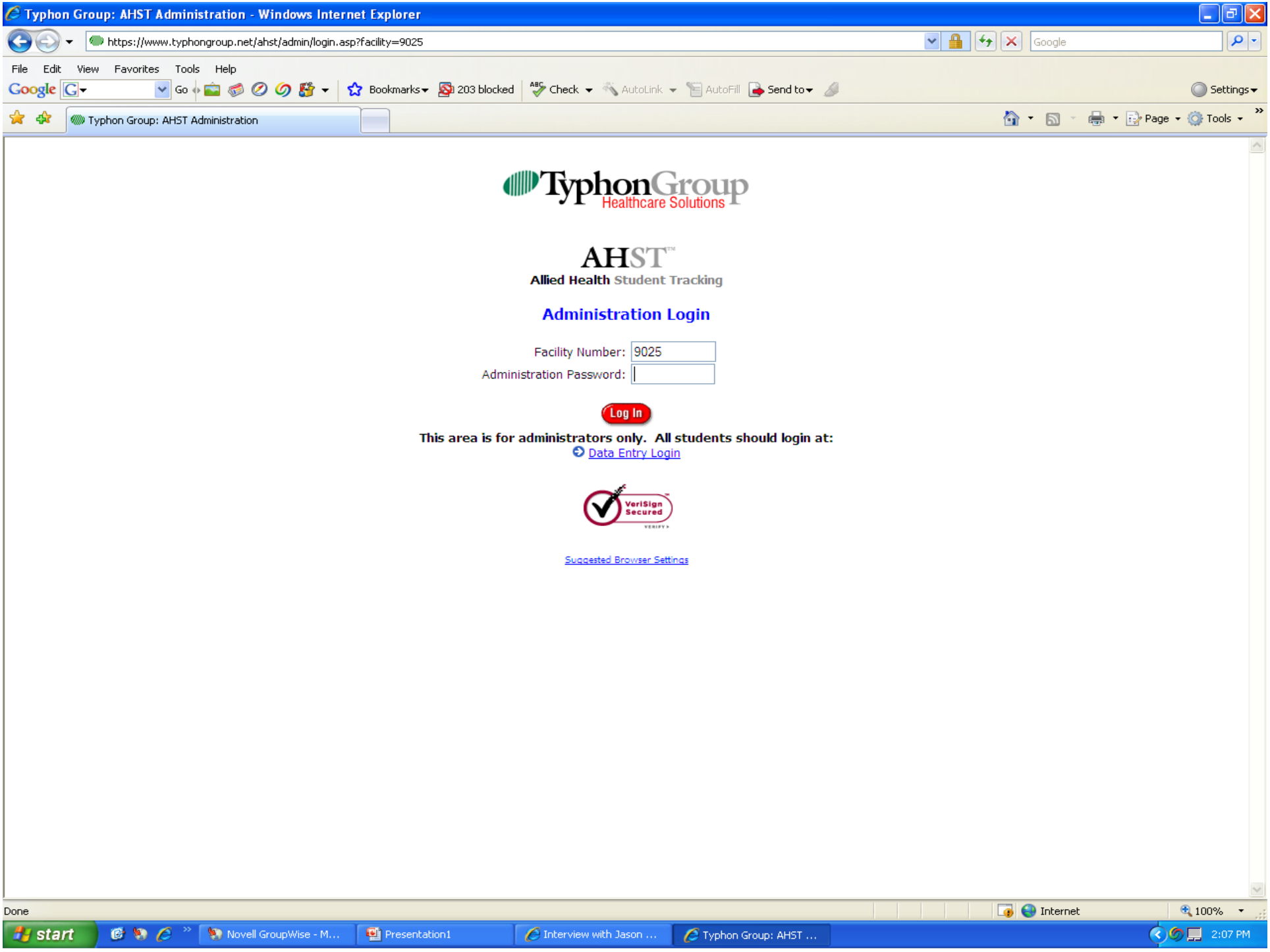
Sep-06
Dec-06
Mar-07
Jun-07
Sep-07
Dec-07
Mar-08
Jun-08
Sep-08
Dec-08
Mar-09
DIF Balance
Dif Reserve Ratio

Typhon Group Software

- Is based in New Orleans
- Has been in the business for 12 years
- Has over 20,000 students active students
- **Is Web-Based!**
- Has modules for Nurse practitioner, Nurse anesthetist, Dental Hygienist, Physician's Assistant and Allied Health Professional training programs
- Allied Health Module is appropriate for a Medical Physics Residency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Bookmarks 203 blocked Check AutoLink AutoFill Send to Settings
Typhon Group: AHST Administration
Page Tools
TyphonGroup
Healthcare Solutions
AHST™
Allied Health Student Tracking
Administration Login
Facility Number: 9025
Administration Password:
Log In
This area is for administrators only. All students should login at:
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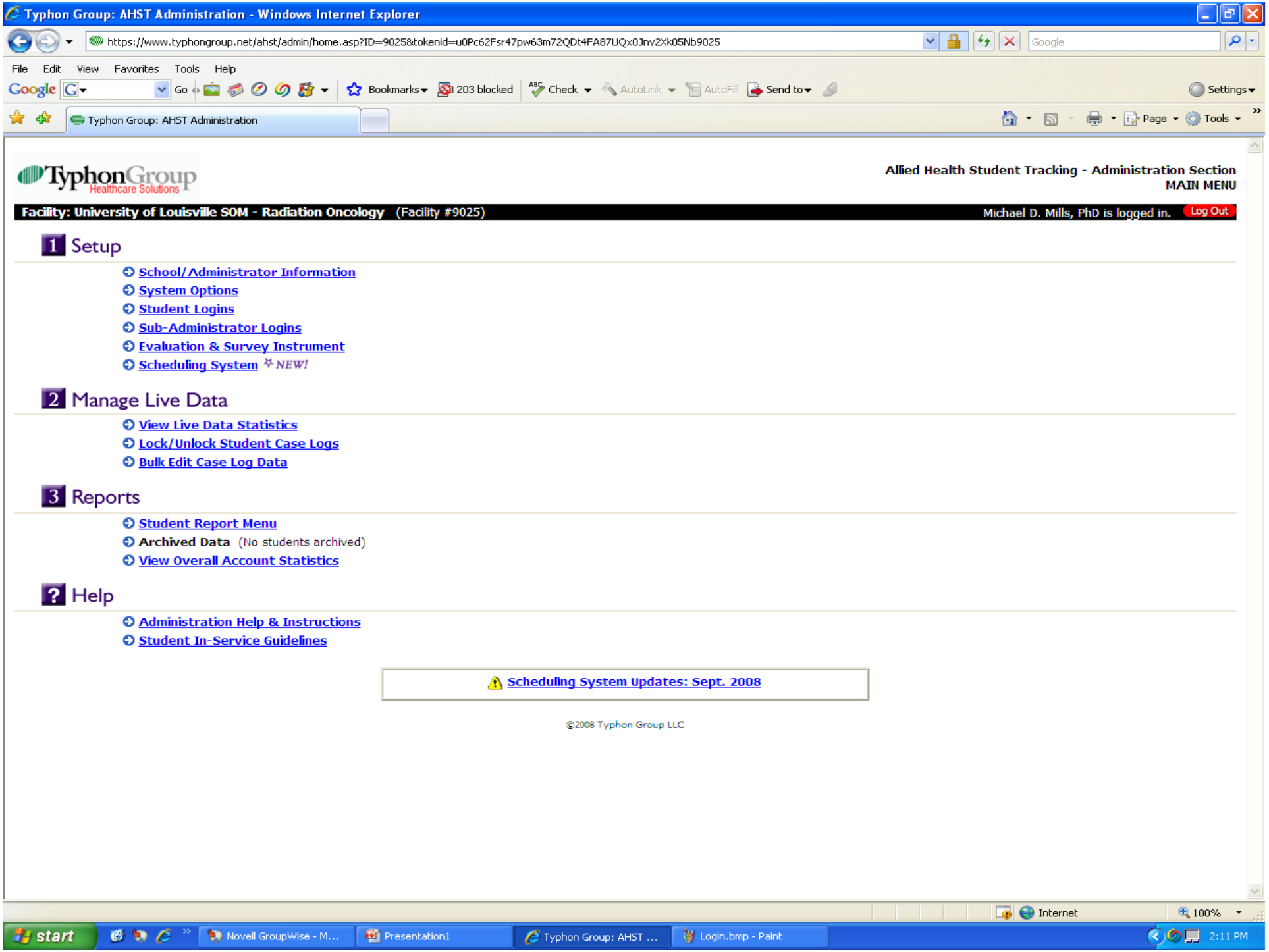
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File Edit View Favorites Tools Help
Typhon Group: AHST Administration
TyphonGroup Healthcare Solutions
Allied Health Student Tracking - Administration Section
MAIN MENU
Facility: University of Louisville SOM - Radiation Oncology (Facility #9025)
Michael D. Mills, PhD is logged in.
Log Out
1 Setup
School/Administrator Information
System Options
Student Logins
Sub-Administrator Logins
Evaluation & Survey Instrument
Scheduling System NEW!
2 Manage Live Data
View Live Data Statistics
Lock/Unlock Student Case Logs
Bulk Edit Case Log Data
3 Reports
Student Report Menu
Archived Data (No students archived)
View Overall Account Statistics
? Help
Administration Help & Instructions
Student In-Service Guidelines
Scheduling System Updates: Sept. 2008
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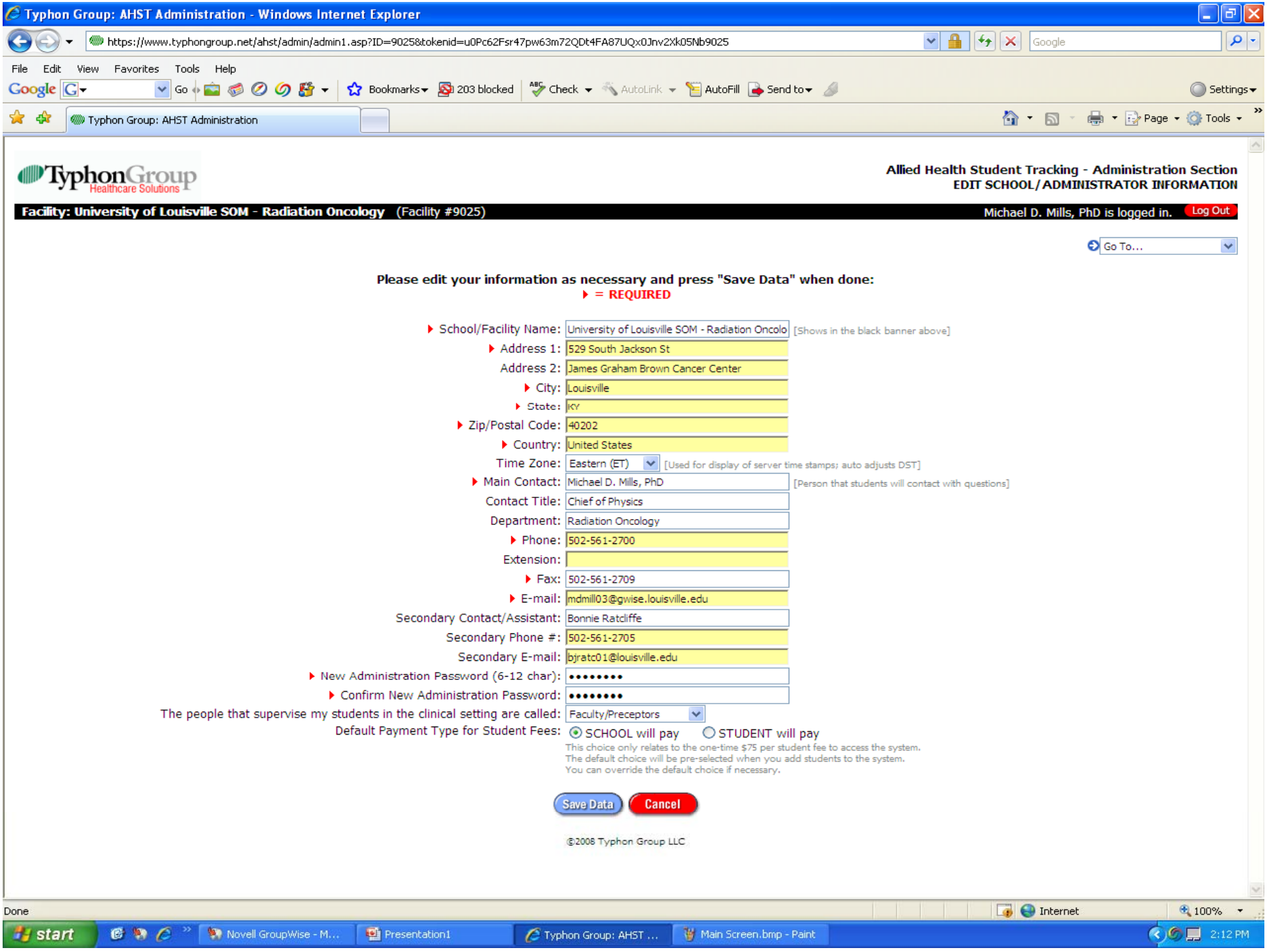
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Typhon Group: AHST Administration
TyphonGroup Healthcare Solutions
Allied Health Student Tracking - Administration Section
EDIT SCHOOL/ADMINISTRATOR INFORMATION
Facility: University of Louisville SOM - Radiation Oncology (Facility #9025)
Michael D. Mills, PhD is logged in.
Log Out
Go To...
Please edit your information as necessary and press "Save Data" when done:
= REQUIRED
School/Facility Name: University of Louisville SOM - Radiation Oncolo [Shows in the black banner above]
Address 1: 529 South Jackson St
Address 2: James Graham Brown Cancer Center
City: Louisville
State: KY
Zip/Postal Code: 40202
Country: United States
Time Zone: Eastern (ET) [Used for display of server time stamps; auto adjusts DST]
Main Contact: Michael D. Mills, PhD [Person that students will contact with questions]
Contact Title: Chief of Physics
Department: Radiation Oncology
Phone: 502-561-2700
Extension:
Fax: 502-561-2709
E-mail: mdmill03@gwise.louisville.edu
Secondary Contact/Assistant: Bonnie Ratcliffe
Secondary Phone #: 502-561-2705
Secondary E-mail: bjratc01@louisville.edu
New Administration Password (6-12 char):
Confirm New Administration Password:
The people that supervise my students in the clinical setting are called: Faculty/Preceptors
Default Payment Type for Student Fees: SCHOOL will pay STUDENT will pay
This choice only relates to the one-time $75 per student fee to access the system.
The default choice will be pre-selected when you add students to the system.
You can override the default choice if necessary.
Save Data
Cancel
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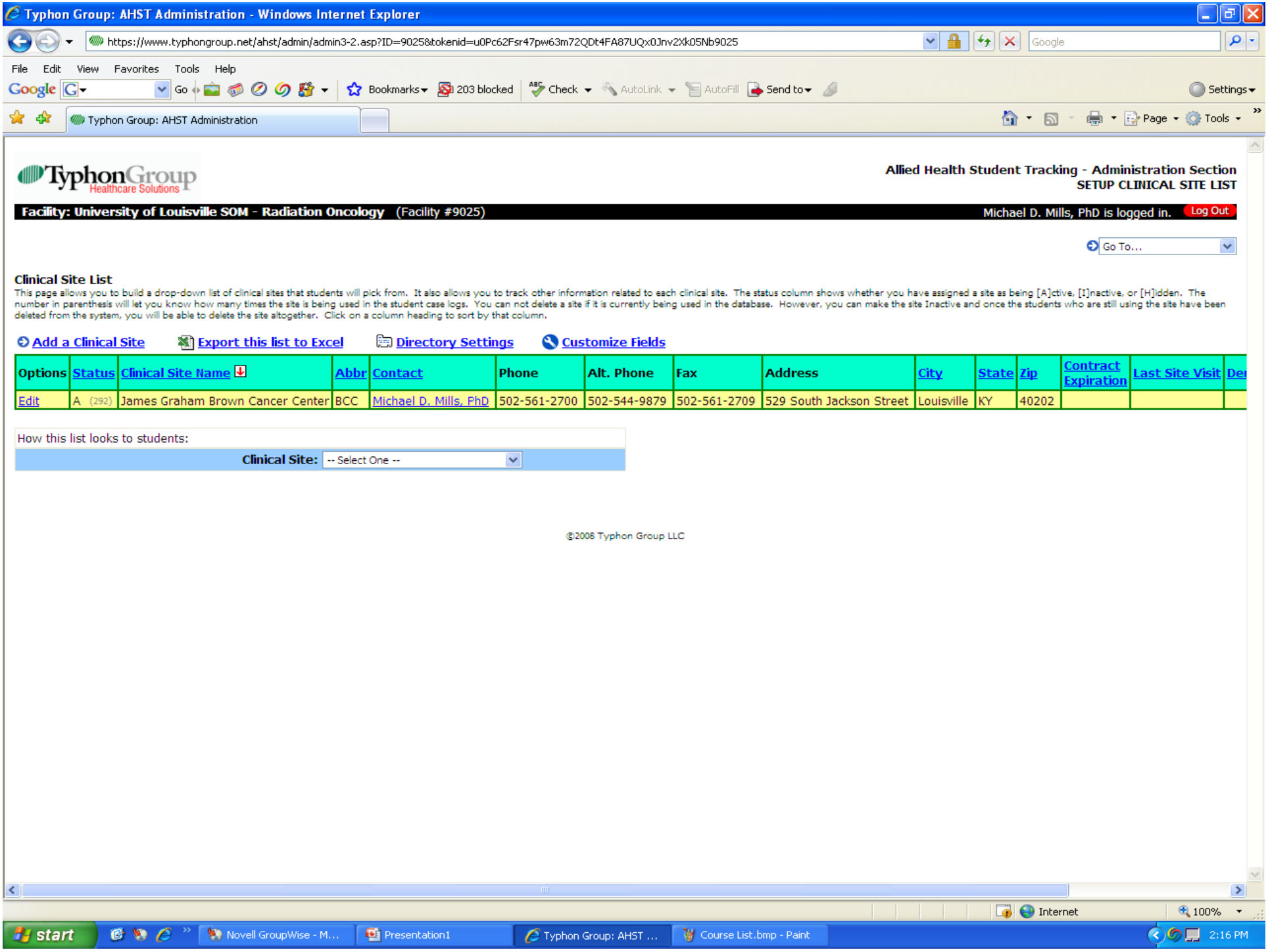
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TyphonGroup Healthcare Solutions
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SETUP CLINICAL SITE LIST
Facility: University of Louisville SOM - Radiation Oncology (Facility #9025)
Michael D. Mills, PhD is logged in.
Log Out
Go To...
Clinical Site List
This page allows you to build a drop-down list of clinical sites that students will pick from. It also allows you to track other information related to each clinical site. The status column shows whether you have assigned a site as being [A]ctive, [I]nactive, or [H]idden. The number in parenthesis will let you know how many times the site is being used in the student case logs. You can not delete a site if it is currently being used in the database. However, you can make the site Inactive and once the students who are still using the site have been deleted from the system, you will be able to delete the site altogether. Click on a column heading to sort by that column.
Add a Clinical Site
Export this list to Excel
Directory Settings
Customize Fields
Options
Status
Clinical Site Name
Abbr
Contact
Phone
Alt. Phone
Fax
Address
City
State
Zip
Contract Expiration
Last Site Visit
Edit
A (292)
James Graham Brown Cancer Center
BCC
Michael D. Mills, PhD
502-561-2700
502-544-9879
502-561-2709
529 South Jackson Street
Louisville
KY
40202
How this list looks to students:
Clinical Site:
-- Select One --
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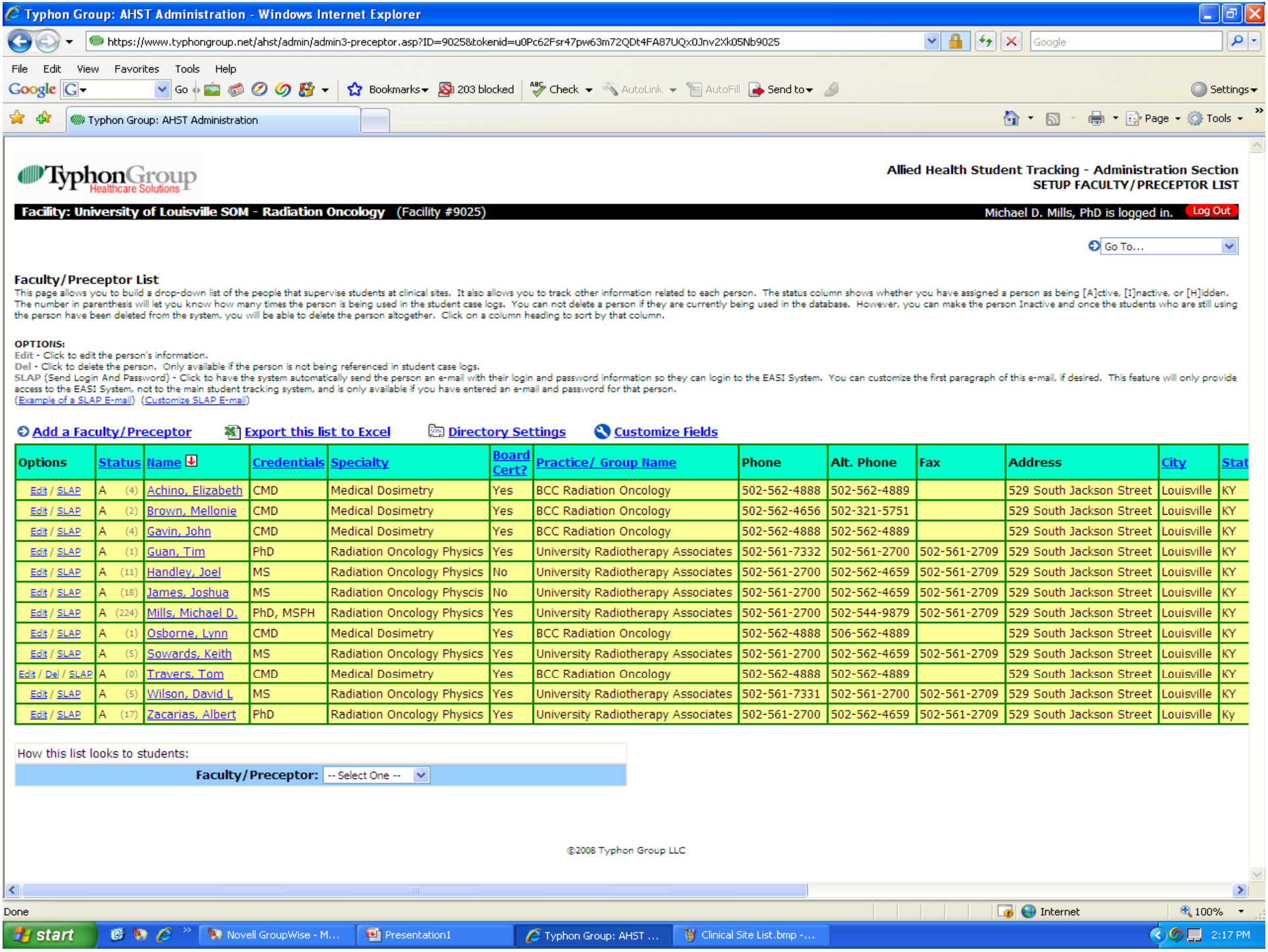
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Typhon Group: AHST Administration
TyphonGroup Healthcare Solutions
Allied Health Student Tracking - Administration Section
SETUP FACULTY/PRECEPTOR LIST
Facility: University of Louisville SOM - Radiation Oncology (Facility #9025)
Michael D. Mills, PhD is logged in. Log Out
Go To...
Faculty/Preceptor List
This page allows you to build a drop-down list of the people that supervise students at clinical sites. It also allows you to track other information related to each person. The status column shows whether you have assigned a person as being [A]ctive, [I]nactive, or [H]idden. The number in parenthesis will let you know how many times the person is being used in the student case logs. You can not delete a person if they are currently being used in the database. However, you can make the person Inactive and once the students who are still using the person have been deleted from the system, you will be able to delete the person altogether. Click on a column heading to sort by that column.
OPTIONS:
Edit - Click to edit the person's information.
Del - Click to delete the person. Only available if the person is not being referenced in student case logs.
SLAP (Send Login And Password) - Click to have the system automatically send the person an e-mail with their login and password information so they can login to the EASI System. You can customize the first paragraph of this e-mail, if desired. This feature will only provide access to the EASI System, not to the main student tracking system, and is only available if you have entered an e-mail and password for that person.
(Example of a SLAP E-mail) (Customize SLAP E-mail)
Add a Faculty/Preceptor
Export this list to Excel
Directory Settings
Customize Fields
Options | Status | Name | Credentials | Specialty | Board Cert? | Practice/ Group Name | Phone | Alt. Phone | Fax | Address | City | Stat
Edit / SLAP | A (4) | Achino, Elizabeth | CMD | Medical Dosimetry | Yes | BCC Radiation Oncology | 502-562-4888 | 502-562-4889 | | 529 South Jackson Street | Louisville | KY
Edit / SLAP | A (2) | Brown, Mellonie | CMD | Medical Dosimetry | Yes | BCC Radiation Oncology | 502-562-4656 | 502-321-5751 | | 529 South Jackson Street | Louisville | KY
Edit / SLAP | A (4) | Gavin, John | CMD | Medical Dosimetry | Yes | BCC Radiation Oncology | 502-562-4888 | 502-562-4889 | | 529 South Jackson Street | Louisville | KY
Edit / SLAP | A (1) | Guan, Tim | PhD | Radiation Oncology Physics | Yes | University Radiotherapy Associates | 502-561-7332 | 502-561-2700 | 502-561-2709 | 529 South Jackson Street | Louisville | KY
Edit / SLAP | A (11) | Handley, Joel | MS | Radiation Oncology Physics | No | University Radiotherapy Associates | 502-561-2700 | 502-562-4659 | 502-561-2709 | 529 South Jackson Street | Louisville | KY
Edit / SLAP | A (18) | James, Joshua | MS | Radiation Oncology Physcis | No | University Radiotherapy Associates | 502-561-2700 | 502-562-4659 | 502-561-2709 | 529 South Jackson Street | Louisville | KY
Edit / SLAP | A (224) | Mills, Michael D. | PhD, MSPH | Radiation Oncology Physics | Yes | University Radiotherapy Associates | 502-561-2700 | 502-544-9879 | 502-561-2709 | 529 South Jackson Street | Louisville | KY
Edit / SLAP | A (1) | Osborne, Lynn | CMD | Medical Dosimetry | Yes | BCC Radiation Oncology | 502-562-4888 | 506-562-4889 | | 529 South Jackson Street | Louisville | KY
Edit / SLAP | A (5) | Sowards, Keith | MS | Radiation Oncology Physics | Yes | University Radiotherapy Associates | 502-561-2700 | 502-562-4659 | 502-561-2709 | 529 South Jackson Street | Louisville | KY
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Edit / SLAP | A (17) | Zacarias, Albert | PhD | Radiation Oncology Physics | Yes | University Radiotherapy Associates | 502-561-2700 | 502-562-4659 | 502-561-2709 | 529 South Jackson Street | Louisville | Ky
How this list looks to students:
Faculty/Preceptor: -- Select One --
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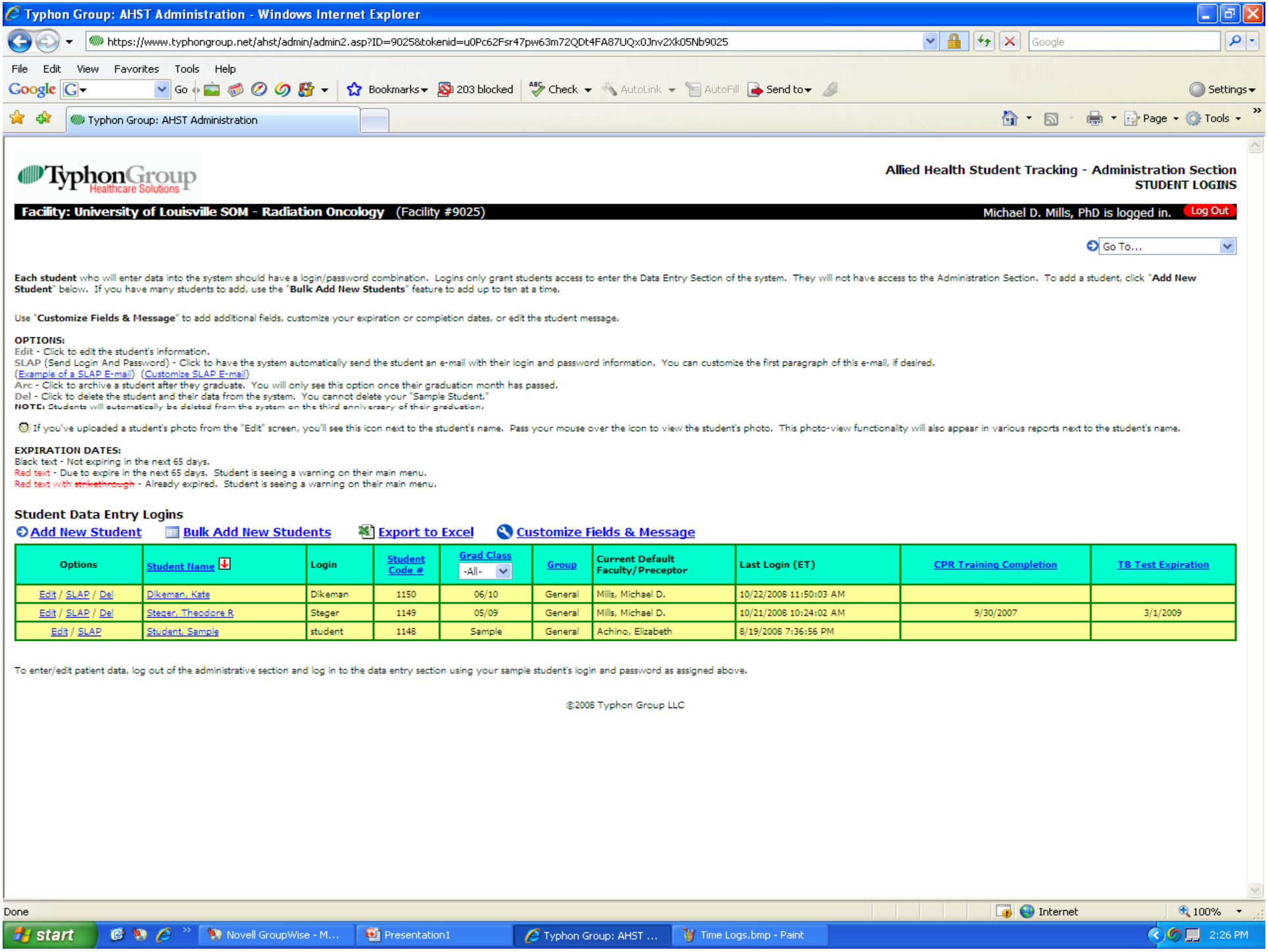
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Typhon Group: AHST Administration
TyphonGroup Healthcare Solutions
Allied Health Student Tracking - Administration Section
STUDENT LOGINS
Facility: University of Louisville SOM - Radiation Oncology (Facility #9025)
Michael D. Mills, PhD is logged in.
Log Out
Go To...
Each student who will enter data into the system should have a login/password combination. Logins only grant students access to enter the Data Entry Section of the system. They will not have access to the Administration Section. To add a student, click "Add New Student" below. If you have many students to add, use the "Bulk Add New Students" feature to add up to ten at a time.
Use "Customize Fields & Message" to add additional fields, customize your expiration or completion dates, or edit the student message.
OPTIONS:
Edit - Click to edit the student's information.
SLAP (Send Login And Password) - Click to have the system automatically send the student an e-mail with their login and password information. You can customize the first paragraph of this e-mail, if desired.
(Example of a SLAP E-mail) (Customize SLAP E-mail)
Arc - Click to archive a student after they graduate. You will only see this option once their graduation month has passed.
Del - Click to delete the student and their data from the system. You cannot delete your "Sample Student."
NOTE: Students will automatically be deleted from the system on the third anniversary of their graduation.
If you've uploaded a student's photo from the "Edit" screen, you'll see this icon next to the student's name. Pass your mouse over the icon to view the student's photo. This photo-view functionality will also appear in various reports next to the student's name.
EXPIRATION DATES:
Black text - Not expiring in the next 65 days.
Red text - Due to expire in the next 65 days. Student is seeing a warning on their main menu.
Red text with strikethrough - Already expired. Student is seeing a warning on their main menu.
Student Data Entry Logins
Add New Student
Bulk Add New Students
Export to Excel
Customize Fields & Message
Options
Student Name
Login
Student Code #
Grad Class
-All-
Group
Current Default Faculty/Preceptor
Last Login (ET)
CPR Training Completion
TB Test Expiration
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Dikeman, Kate
Dikeman
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General
Mills, Michael D.
10/22/2008 11:50:03 AM
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Steger, Theodore R
Steger
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General
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10/21/2008 10:24:02 AM
9/30/2007
3/1/2009
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Student, Sample
student
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Sample
General
Achino, Elizabeth
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To enter/edit patient data, log out of the administrative section and log in to the data entry section using your sample student's login and password as assigned above.
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File Edit View Favorites Tools Help
Typhon Group: AHST Administration

Options	Course Name	Required Hours
Edit / Del (0)	Anatomy and Technique	10
Edit (1)	Board Preparation	20
Edit (219)	Core Curriculum (Clinical)	40
Edit (6)	Health Physics Operations	20
Edit / Del (0)	Journal Club	10
Edit (28)	Machine QA / Acceptance / Commissioning	20
Edit / Del (0)	Medical Ethics History and Current Perspectives	2
Edit / Del (0)	Multi-Modality	10
Edit (5)	Observation of Patient Simulations and Treatment	40
Edit / Del (0)	Orientation - Brachytherapy Laboratory	2
Edit / Del (0)	Orientation - Brachytherapy Overview	2
Edit / Del (0)	Orientation - Dosimetry Operations	1
Edit / Del (0)	Orientation - External Beam - Conventional	2
Edit / Del (0)	Orientation - External Beam - Hand Calculations	2
Edit / Del (0)	Orientation - External Beam - IMRT / IGRT	2
Edit / Del (0)	Orientation - IGRT Laboratory - Dosimetry - DQA	2
Edit / Del (0)	Orientation - Machine Safety - Engineering	1
Edit / Del (0)	Orientation - QA in ARIA	2
Edit / Del (0)	Orientation - Rad Onc Standards & Nomenclature	2
Edit / Del (0)	Orientation - Radiation Biology in Rad Onc	2
Edit / Del (0)	Orientation - Radiation Oncology Quality Assurance	2
Edit / Del (0)	Orientation - Radiation Safety	2
Edit / Del (0)	Orientation - Radiation Safety Laboratory	2
Edit / Del (0)	Orientation - RTT and Dosimetry Programs	1
Edit / Del (0)	Radiation Biology / Radiobiology Review	40
Edit / Del (0)	Radiation Oncology Physics I - Khan Rad Onc	40
Edit / Del (0)	Radiation Oncology Physics II - Imaging, Nuc Med	20
Edit / Del (0)	Radiation Oncology Physics III - VanDyk Self Study	10
Edit / Del (0)	Radioactive Materials Shipping Training	2
Edit (33)	Stanford Dosimetry Training Tool	200
Edit / Del (0)	Statistics	10

How this list looks to students:

Course: -- Select One --

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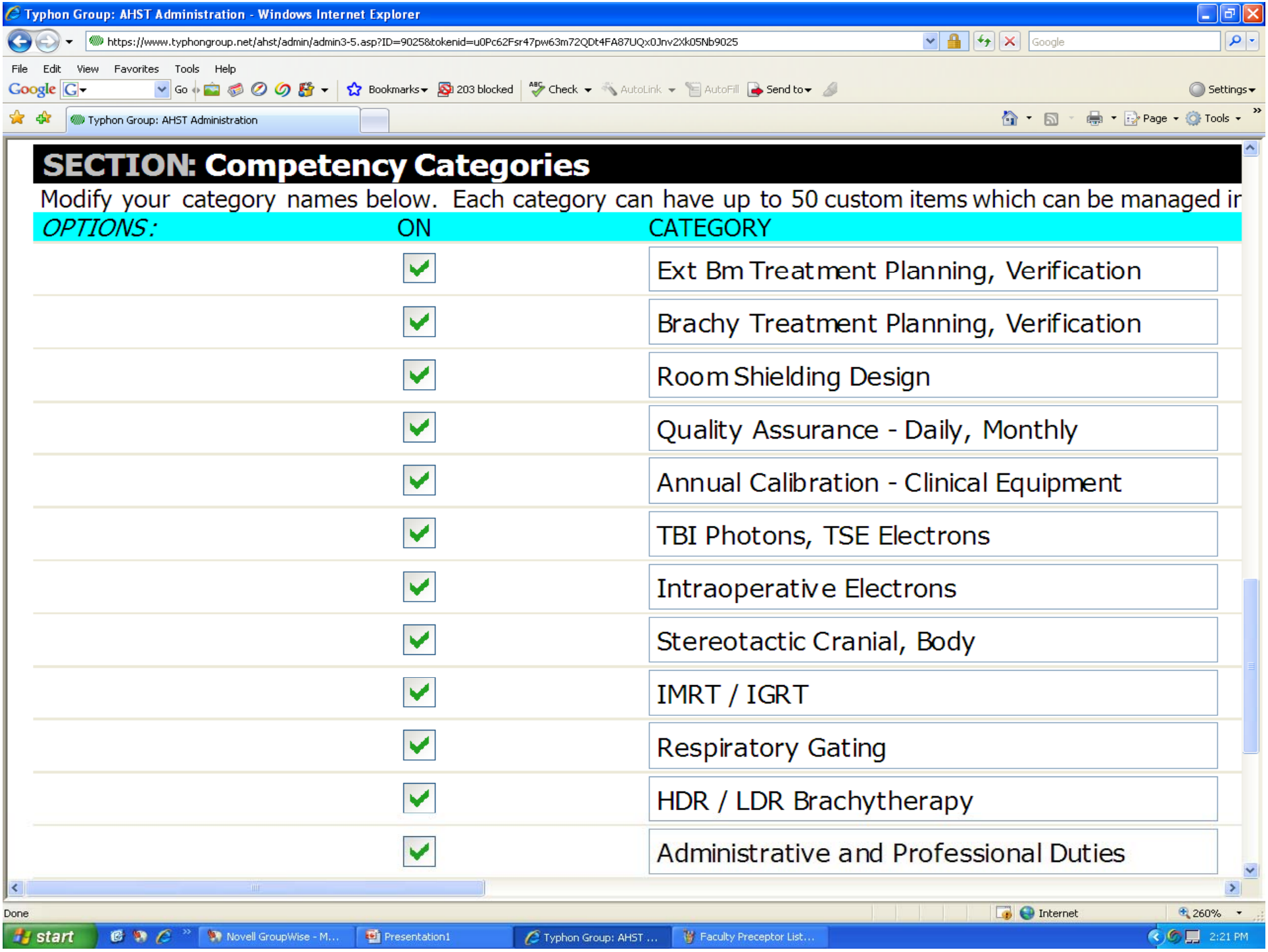
Typhon Group: AHST Administration - Windows Internet Explorer
https://www.typhongroup.net/ahst/admin/admin3-5.asp?ID=9025&tokenid=u0Pc62Fsr47pw63m72QDt4FA87UQx0Jnv2Xk05Nb9025
File Edit View Favorites Tools Help
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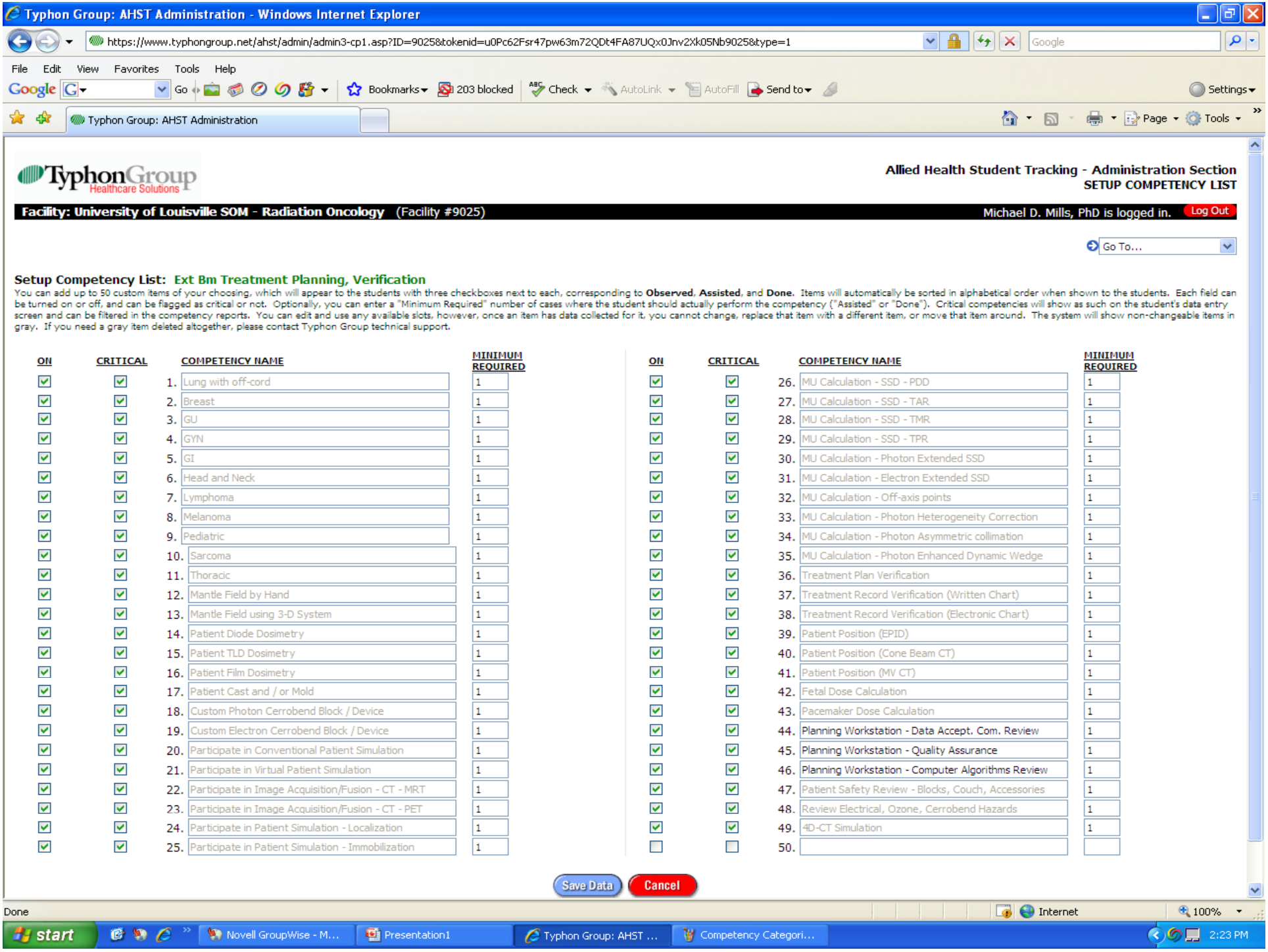
SECTION: Competency Categories
Modify your category names below. Each category can have up to 50 custom items which can be managed ir
OPTIONS:
ON
CATEGORY
Ext Bm Treatment Planning, Verification
Brachy Treatment Planning, Verification
Room Shielding Design
Quality Assurance - Daily, Monthly
Annual Calibration - Clinical Equipment
TBI Photons, TSE Electrons
Intraoperative Electrons
Stereotactic Cranial, Body
IMRT / IGRT
Respiratory Gating
HDR / LDR Brachytherapy
Administrative and Professional Duties
Done
Internet
260%
start
Novell GroupWise - M...
Presentation1
Typhon Group: AHST ...
Faculty Preceptor List...
2:21 PM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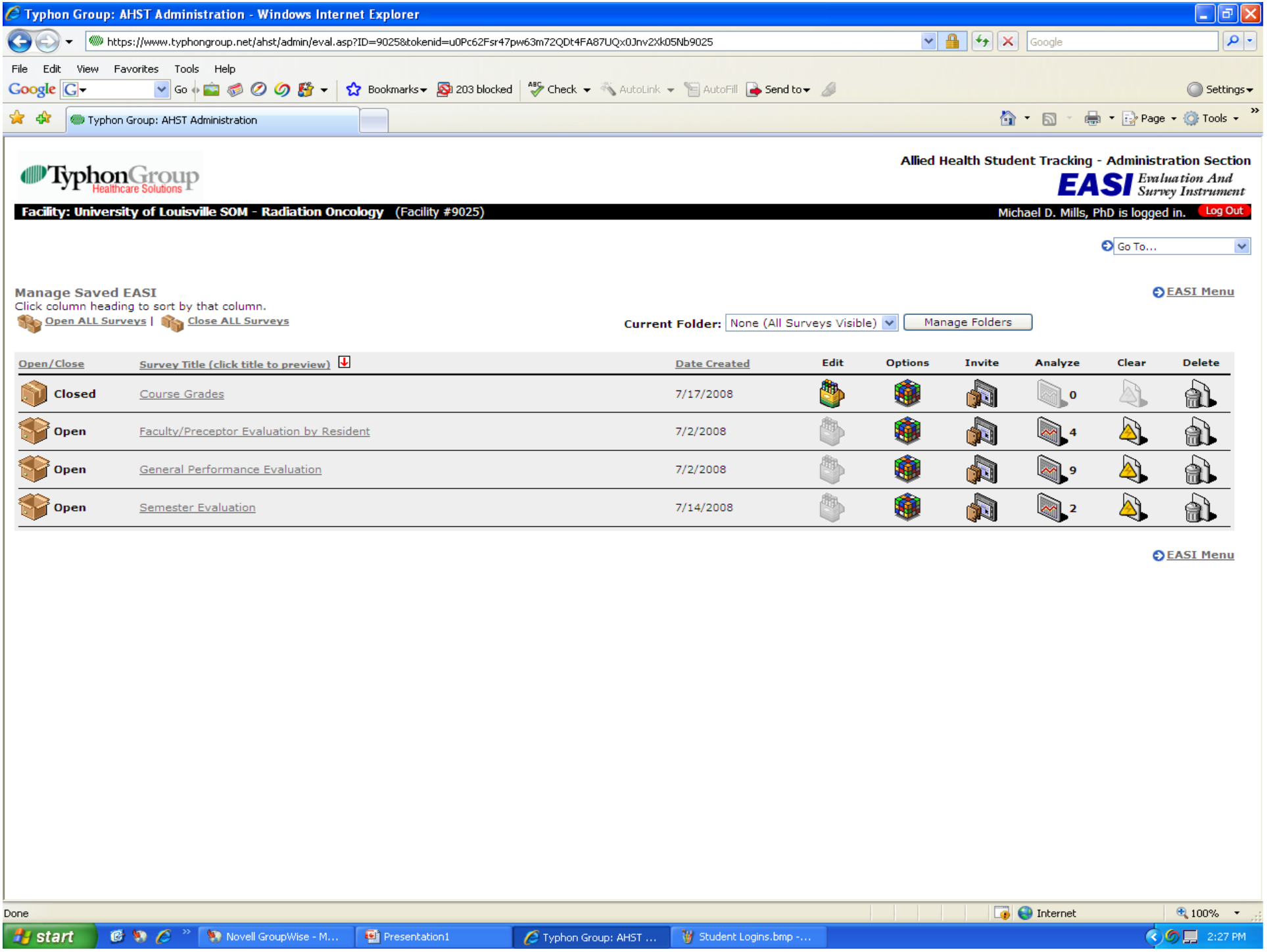
Typhon Group: AHST Administration
TyphonGroup Healthcare Solutions
Allied Health Student Tracking - Administration Section
SETUP COMPETENCY LIST
Facility: University of Louisville SOM - Radiation Oncology (Facility #9025)
Michael D. Mills, PhD is logged in.
Log Out
Go To...
Setup Competency List: Ext Bm Treatment Planning, Verification
You can add up to 50 custom items of your choosing, which will appear to the students with three checkboxes next to each, corresponding to Observed, Assisted, and Done. Items will automatically be sorted in alphabetical order when shown to the students. Each field can be turned on or off, and can be flagged as critical or not. Optionally, you can enter a "Minimum Required" number of cases where the student should actually perform the competency ("Assisted" or "Done"). Critical competencies will show as such on the student's data entry screen and can be filtered in the competency reports. You can edit and use any available slots, however, once an item has data collected for it, you cannot change, replace that item with a different item, or move that item around. The system will show non-changeable items in gray. If you need a gray item deleted altogether, please contact Typhon Group technical support.
ON
CRITICAL
COMPETENCY NAME
MINIMUM REQUIRED
1. Lung with off-cord
2. Breast
3. GU
4. GYN
5. GI
6. Head and Neck
7. Lymphoma
8. Melanoma
9. Pediatric
10. Sarcoma
11. Thoracic
12. Mantle Field by Hand
13. Mantle Field using 3-D System
14. Patient Diode Dosimetry
15. Patient TLD Dosimetry
16. Patient Film Dosimetry
17. Patient Cast and / or Mold
18. Custom Photon Cerrobend Block / Device
19. Custom Electron Cerrobend Block / Device
20. Participate in Conventional Patient Simulation
21. Participate in Virtual Patient Simulation
22. Participate in Image Acquisition/Fusion - CT - MRT
23. Participate in Image Acquisition/Fusion - CT - PET
24. Participate in Patient Simulation - Localization
25. Participate in Patient Simulation - Immobilization
26. MU Calculation - SSD - PDD
27. MU Calculation - SSD - TAR
28. MU Calculation - SSD - TMR
29. MU Calculation - SSD - TPR
30. MU Calculation - Photon Extended SSD
31. MU Calculation - Electron Extended SSD
32. MU Calculation - Off-axis points
33. MU Calculation - Photon Heterogeneity Correction
34. MU Calculation - Photon Asymmetric collimation
35. MU Calculation - Photon Enhanced Dynamic Wedge
36. Treatment Plan Verification
37. Treatment Record Verification (Written Chart)
38. Treatment Record Verification (Electronic Chart)
39. Patient Position (EPID)
40. Patient Position (Cone Beam CT)
41. Patient Position (MV CT)
42. Fetal Dose Calculation
43. Pacemaker Dose Calculation
44. Planning Workstation - Data Accept. Com. Review
45. Planning Workstation - Quality Assurance
46. Planning Workstation - Computer Algorithms Review
47. Patient Safety Review - Blocks, Couch, Accessories
48. Review Electrical, Ozone, Cerrobend Hazards
49. 4D-CT Simulation
50.
Save Data
Cancel
Done
Internet
100%
start
Novell GroupWise - M...
Presentation1
Typhon Group: AHST ...
Competency Categori...
2:23 PM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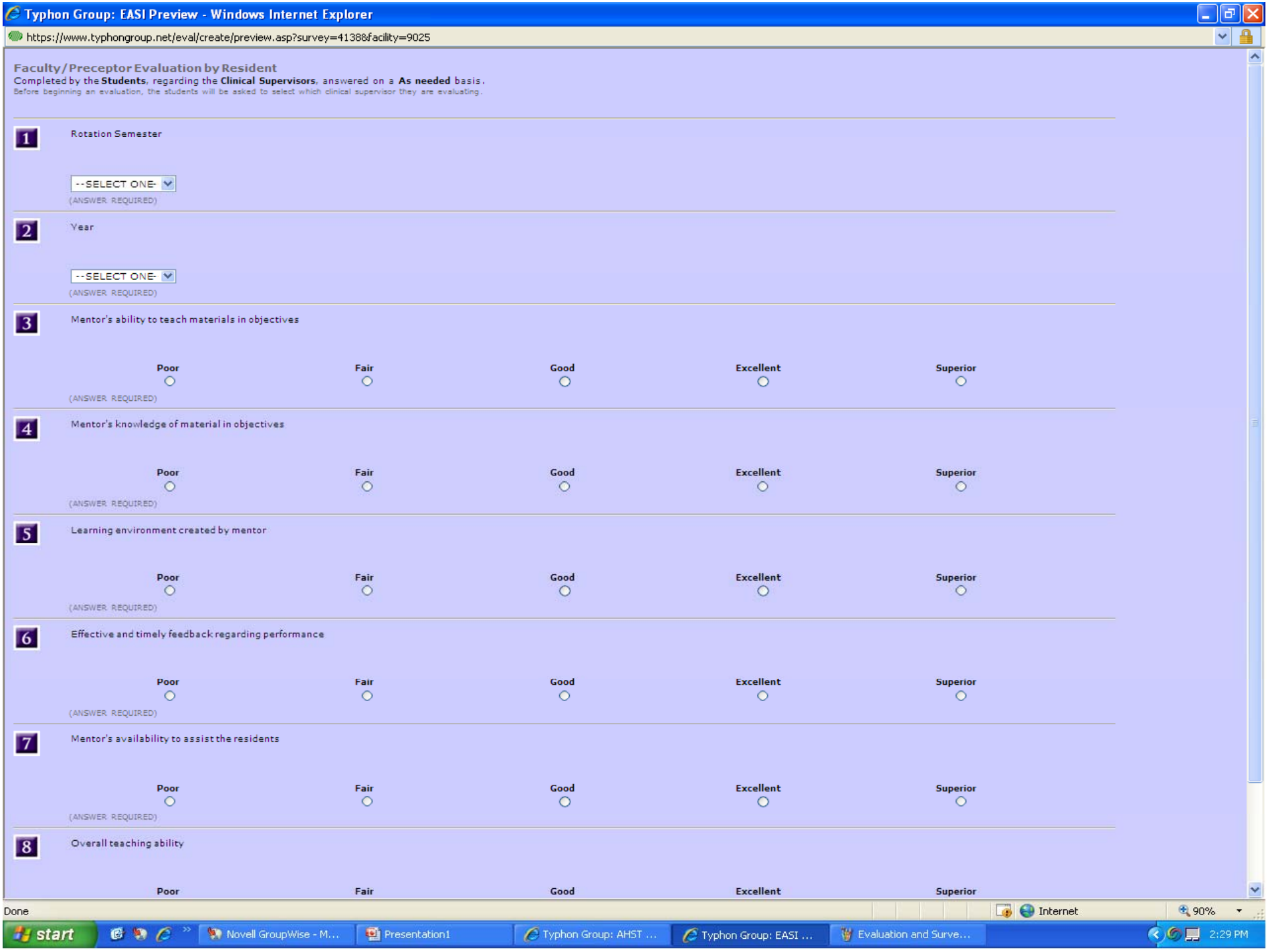
https://www.typhongroup.net/ahst/admin/eval.asp?ID=9025&tokenid=u0Pc62Fsr47pw63m72QDt4FA87UQx0Jnv2Xk05Nb9025
Typhon Group: AHST Administration
TyphonGroup Healthcare Solutions
Allied Health Student Tracking - Administration Section
EASI Evaluation And Survey Instrument
Facility: University of Louisville SOM - Radiation Oncology (Facility #9025)
Michael D. Mills, PhD is logged in.
Log Out
Go To...
Manage Saved EASI
Click column heading to sort by that column.
Open ALL Surveys | Close ALL Surveys
EASI Menu
Current Folder: None (All Surveys Visible)
Manage Folders
Open/Close
Survey Title (click title to preview)
Date Created
Edit
Options
Invite
Analyze
Clear
Delete
Closed
Course Grades
7/17/2008
0
Open
Faculty/Preceptor Evaluation by Resident
7/2/2008
4
Open
General Performance Evaluation
7/2/2008
9
Open
Semester Evaluation
7/14/2008
2
EASI Menu
Done
Internet
100%
start
Novell GroupWise - M...
Presentation1
Typhon Group: AHST ...
Student Logins.bmp -...
2:27 PM


Typhon Group: EASI Preview - Windows Internet Explorer
https://www.typhongroup.net/eval/create/preview.asp?survey=4138&facility=9025
Faculty/Preceptor Evaluation by Resident
Completed by the Students, regarding the Clinical Supervisors, answered on a As needed basis.
Before beginning an evaluation, the students will be asked to select which clinical supervisor they are evaluating.
1
Rotation Semester
--SELECT ONE-
(ANSWER REQUIRED)
2
Year
--SELECT ONE-
(ANSWER REQUIRED)
3
Mentor's ability to teach materials in objectives
Poor
Fair
Good
Excellent
Superior
(ANSWER REQUIRED)
4
Mentor's knowledge of material in objectives
Poor
Fair
Good
Excellent
Superior
(ANSWER REQUIRED)
5
Learning environment created by mentor
Poor
Fair
Good
Excellent
Superior
(ANSWER REQUIRED)
6
Effective and timely feedback regarding performance
Poor
Fair
Good
Excellent
Superior
(ANSWER REQUIRED)
7
Mentor's availability to assist the residents
Poor
Fair
Good
Excellent
Superior
(ANSWER REQUIRED)
8
Overall teaching ability
Poor
Fair
Good
Excellent
Superior
Done
Internet
90%
start
Novell GroupWise - M...
Presentation1
Typhon Group: AHST ...
Typhon Group: EASI ...
Evaluation and Surve...
2:29 PM

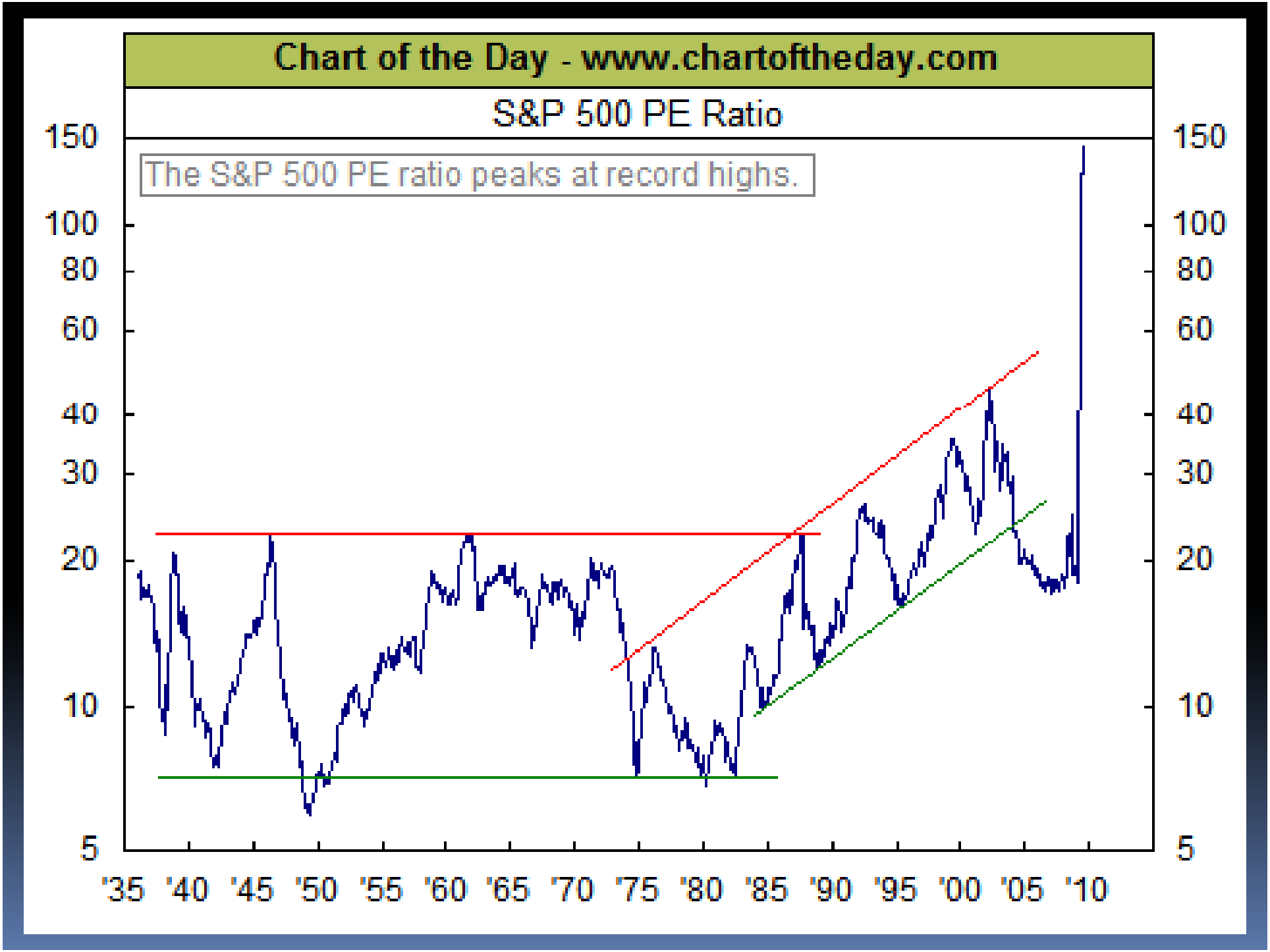
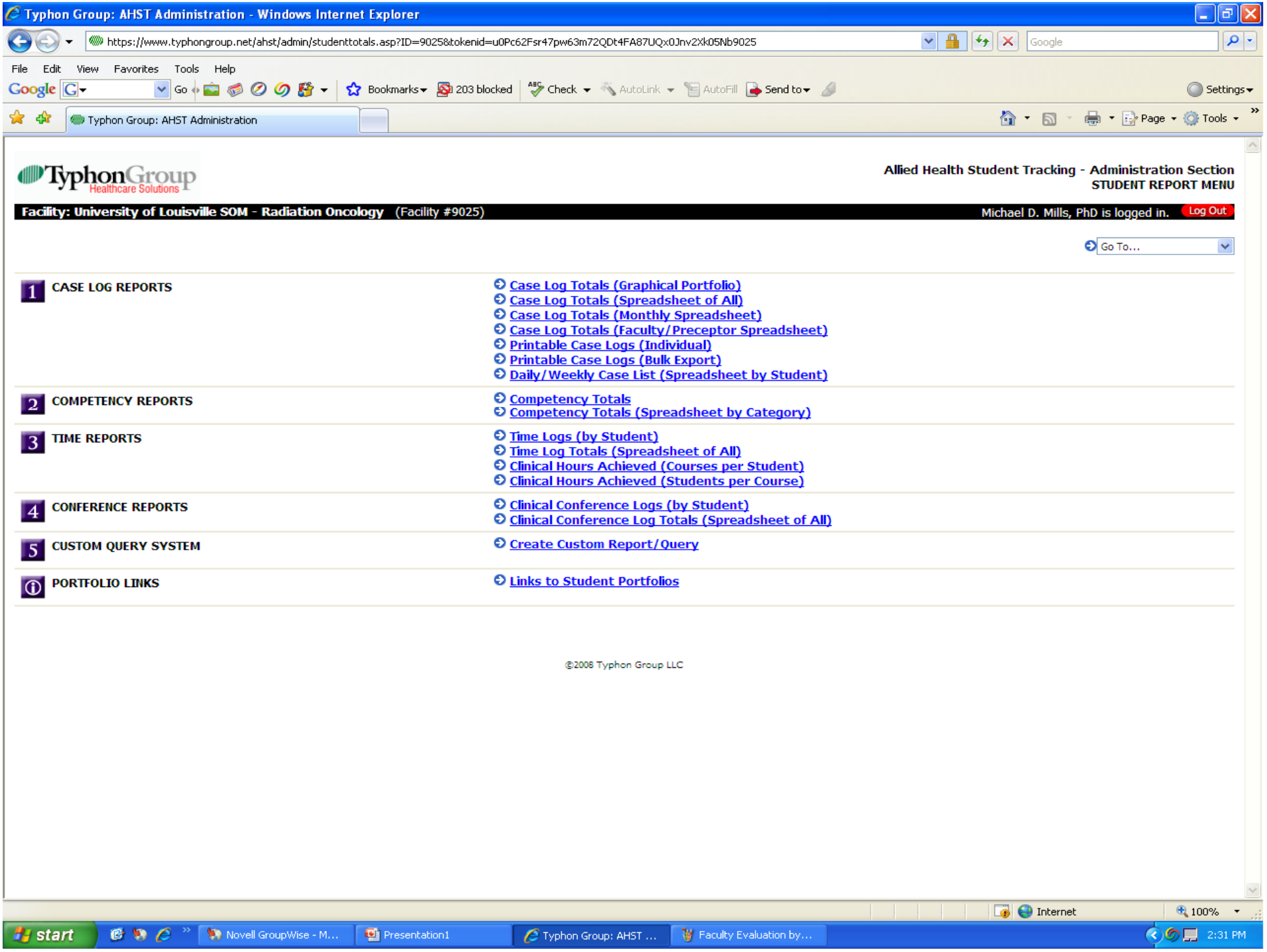
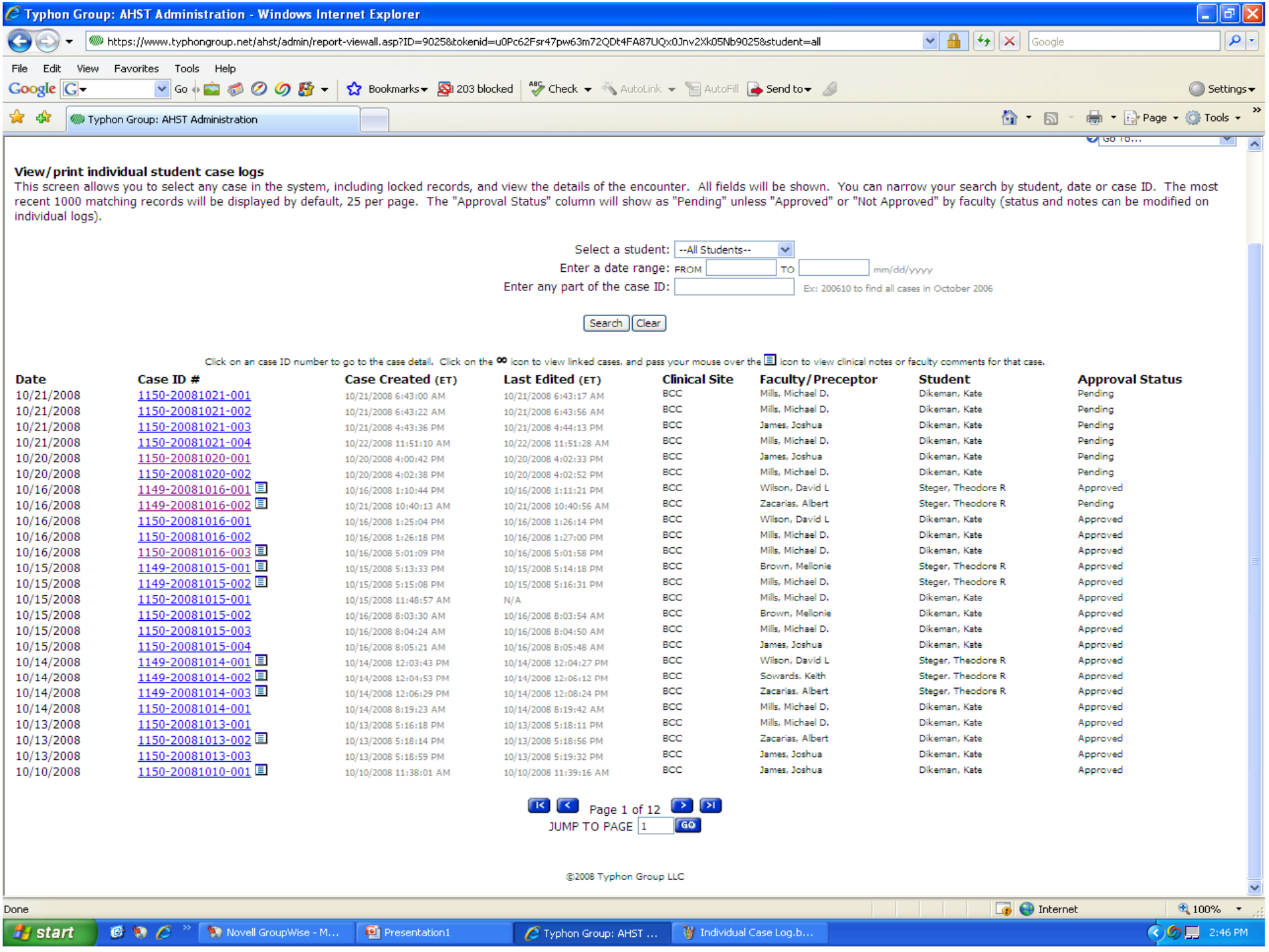


Chart of the Day - www.chartoftheday.com
S&P 500 PE Ratio
The S&P 500 PE ratio peaks at record highs.
150
100
80
60
40
30
20
10
5
'35
'40
'45
'50
'55
'60
'65
'70
'75
'80
'85
'90
'95
'00
'05
'10


Typhon Group: AHST Administration - Windows Internet Explorer
https://www.typhongroup.net/ahst/admin/studenttotals.asp?ID=9025&tokenid=u0Pc62Fsr47pw63m72QDt4FA87UQx0Jnv2Xk05Nb9025
File Edit View Favorites Tools Help
Typhon Group: AHST Administration
TyphonGroup Healthcare Solutions
Allied Health Student Tracking - Administration Section
STUDENT REPORT MENU
Facility: University of Louisville SOM - Radiation Oncology (Facility #9025)
Michael D. Mills, PhD is logged in.
Log Out
Go To...
1 CASE LOG REPORTS
Case Log Totals (Graphical Portfolio)
Case Log Totals (Spreadsheet of All)
Case Log Totals (Monthly Spreadsheet)
Case Log Totals (Faculty/Preceptor Spreadsheet)
Printable Case Logs (Individual)
Printable Case Logs (Bulk Export)
Daily/Weekly Case List (Spreadsheet by Student)
2 COMPETENCY REPORTS
Competency Totals
Competency Totals (Spreadsheet by Category)
3 TIME REPORTS
Time Logs (by Student)
Time Log Totals (Spreadsheet of All)
Clinical Hours Achieved (Courses per Student)
Clinical Hours Achieved (Students per Course)
4 CONFERENCE REPORTS
Clinical Conference Logs (by Student)
Clinical Conference Log Totals (Spreadsheet of All)
5 CUSTOM QUERY SYSTEM
Create Custom Report/Query
PORTFOLIO LINKS
Links to Student Portfolios
©2008 Typhon Group LLC
Internet
100%
start
Novell GroupWise - M...
Presentation1
Typhon Group: AHST ...
Faculty Evaluation by...
2:31 PM



View/print individual student case logs

This screen allows you to select any case in the system, including locked records, and view the details of the encounter. All fields will be shown. You can narrow your search by student, date or case ID. The most recent 1000 matching records will be displayed by default, 25 per page. The "Approval Status" column will show as "Pending" unless "Approved" or "Not Approved" by faculty (status and notes can be modified on individual logs).

Select a student: --All Students--

Enter a date range: FROM TO mm/dd/yyyy

Enter any part of the case ID: Ex: 200610 to find all cases in October 2006

Search Clear

Click on an case ID number to go to the case detail. Click on the ∞ icon to view linked cases, and pass your mouse over the icon to view clinical notes or faculty comments for that case.

Date	Case ID #	Case Created (ET)	Last Edited (ET)	Clinical Site	Faculty/Preceptor	Student	Approval Status
10/21/2008	1150-20081021-001	10/21/2008 6:43:00 AM	10/21/2008 6:43:17 AM	BCC	Mills, Michael D.	Dikeman, Kate	Pending
10/21/2008	1150-20081021-002	10/21/2008 6:43:22 AM	10/21/2008 6:43:56 AM	BCC	Mills, Michael D.	Dikeman, Kate	Pending
10/21/2008	1150-20081021-003	10/21/2008 4:43:36 PM	10/21/2008 4:44:13 PM	BCC	James, Joshua	Dikeman, Kate	Pending
10/21/2008	1150-20081021-004	10/22/2008 11:51:10 AM	10/22/2008 11:51:28 AM	BCC	Mills, Michael D.	Dikeman, Kate	Pending
10/20/2008	1150-20081020-001	10/20/2008 4:00:42 PM	10/20/2008 4:02:33 PM	BCC	James, Joshua	Dikeman, Kate	Pending
10/20/2008	1150-20081020-002	10/20/2008 4:02:38 PM	10/20/2008 4:02:52 PM	BCC	Mills, Michael D.	Dikeman, Kate	Pending
10/16/2008	1149-20081016-001	10/16/2008 1:10:44 PM	10/16/2008 1:11:21 PM	BCC	Wilson, David L	Steger, Theodore R	Approved
10/16/2008	1149-20081016-002	10/21/2008 10:40:13 AM	10/21/2008 10:40:56 AM	BCC	Zacarias, Albert	Steger, Theodore R	Pending
10/16/2008	1150-20081016-001	10/16/2008 1:25:04 PM	10/16/2008 1:26:14 PM	BCC	Wilson, David L	Dikeman, Kate	Approved
10/16/2008	1150-20081016-002	10/16/2008 1:26:18 PM	10/16/2008 1:27:00 PM	BCC	Mills, Michael D.	Dikeman, Kate	Approved
10/16/2008	1150-20081016-003	10/16/2008 5:01:09 PM	10/16/2008 5:01:58 PM	BCC	Mills, Michael D.	Dikeman, Kate	Approved
10/15/2008	1149-20081015-001	10/15/2008 5:13:33 PM	10/15/2008 5:14:18 PM	BCC	Brown, Mellonie	Steger, Theodore R	Approved
10/15/2008	1149-20081015-002	10/15/2008 5:15:08 PM	10/15/2008 5:16:31 PM	BCC	Mills, Michael D.	Steger, Theodore R	Approved
10/15/2008	1150-20081015-001	10/15/2008 11:48:57 AM	N/A	BCC	Mills, Michael D.	Dikeman, Kate	Approved
10/15/2008	1150-20081015-002	10/16/2008 8:03:30 AM	10/16/2008 8:03:54 AM	BCC	Brown, Mellonie	Dikeman, Kate	Approved
10/15/2008	1150-20081015-003	10/16/2008 8:04:24 AM	10/16/2008 8:04:50 AM	BCC	Mills, Michael D.	Dikeman, Kate	Approved
10/15/2008	1150-20081015-004	10/16/2008 8:05:21 AM	10/16/2008 8:05:48 AM	BCC	James, Joshua	Dikeman, Kate	Approved
10/14/2008	1149-20081014-001	10/14/2008 12:03:43 PM	10/14/2008 12:04:27 PM	BCC	Wilson, David L	Steger, Theodore R	Approved
10/14/2008	1149-20081014-002	10/14/2008 12:04:53 PM	10/14/2008 12:06:12 PM	BCC	Sowards, Keith	Steger, Theodore R	Approved
10/14/2008	1149-20081014-003	10/14/2008 12:06:29 PM	10/14/2008 12:08:24 PM	BCC	Zacarias, Albert	Steger, Theodore R	Approved
10/14/2008	1150-20081014-001	10/14/2008 8:19:23 AM	10/14/2008 8:19:42 AM	BCC	Mills, Michael D.	Dikeman, Kate	Approved
10/13/2008	1150-20081013-001	10/13/2008 5:16:18 PM	10/13/2008 5:18:11 PM	BCC	Mills, Michael D.	Dikeman, Kate	Approved
10/13/2008	1150-20081013-002	10/13/2008 5:18:14 PM	10/13/2008 5:18:56 PM	BCC	Zacarias, Albert	Dikeman, Kate	Approved
10/13/2008	1150-20081013-003	10/13/2008 5:18:59 PM	10/13/2008 5:19:32 PM	BCC	James, Joshua	Dikeman, Kate	Approved
10/10/2008	1150-20081010-001	10/10/2008 11:38:01 AM	10/10/2008 11:39:16 AM	BCC	James, Joshua	Dikeman, Kate	Approved

Page 1 of 12

JUMP TO PAGE 1 GO

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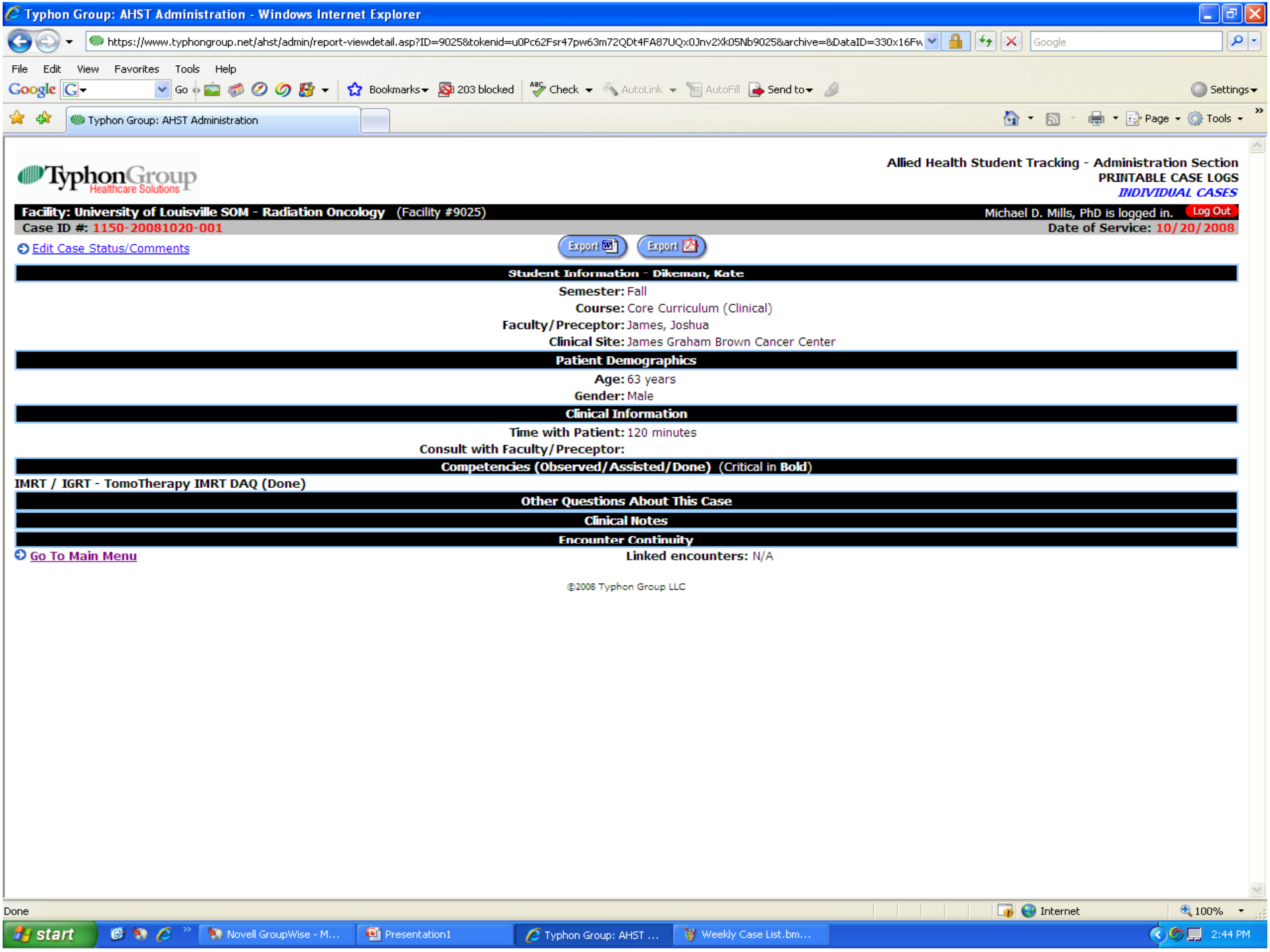
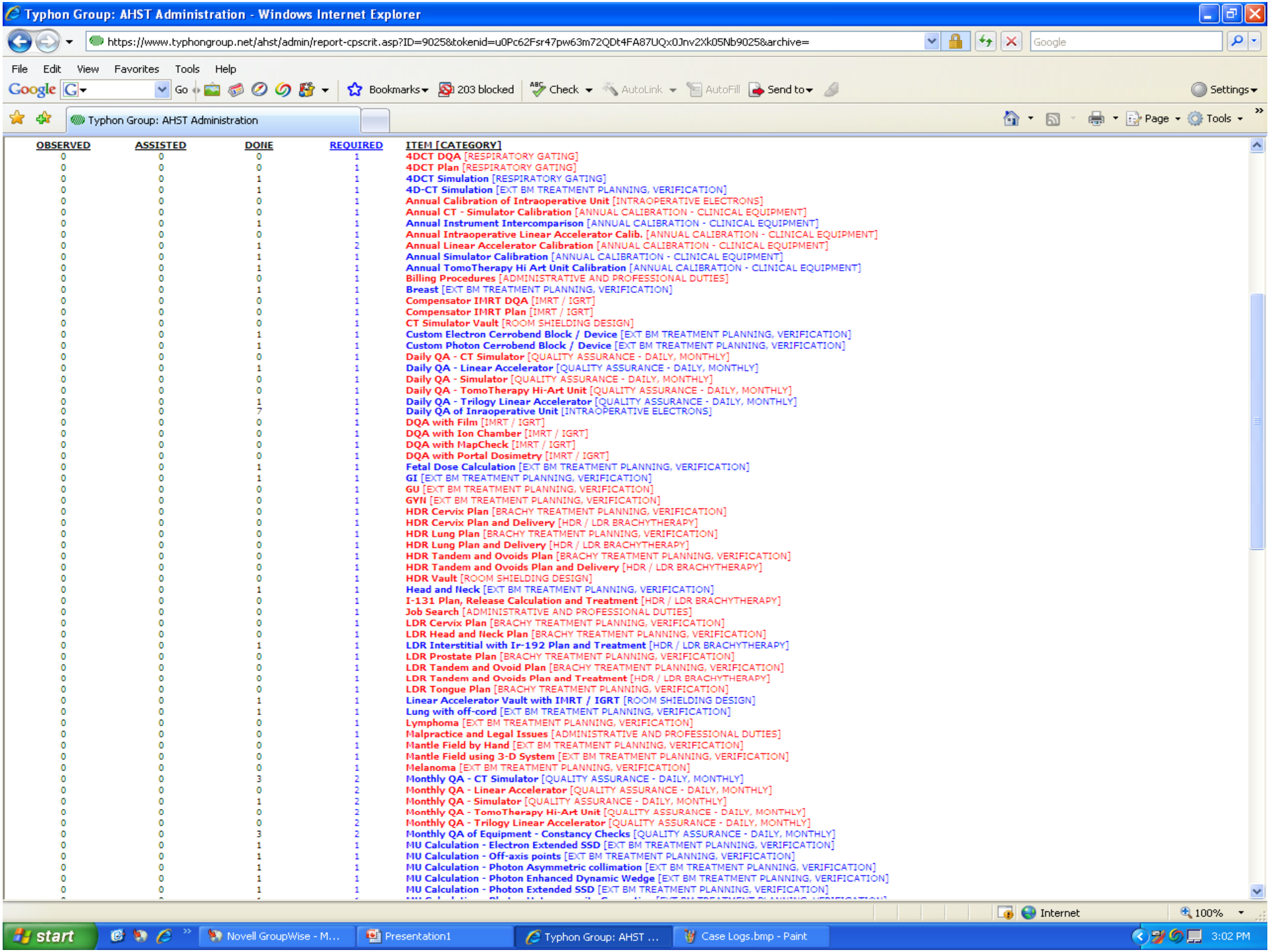
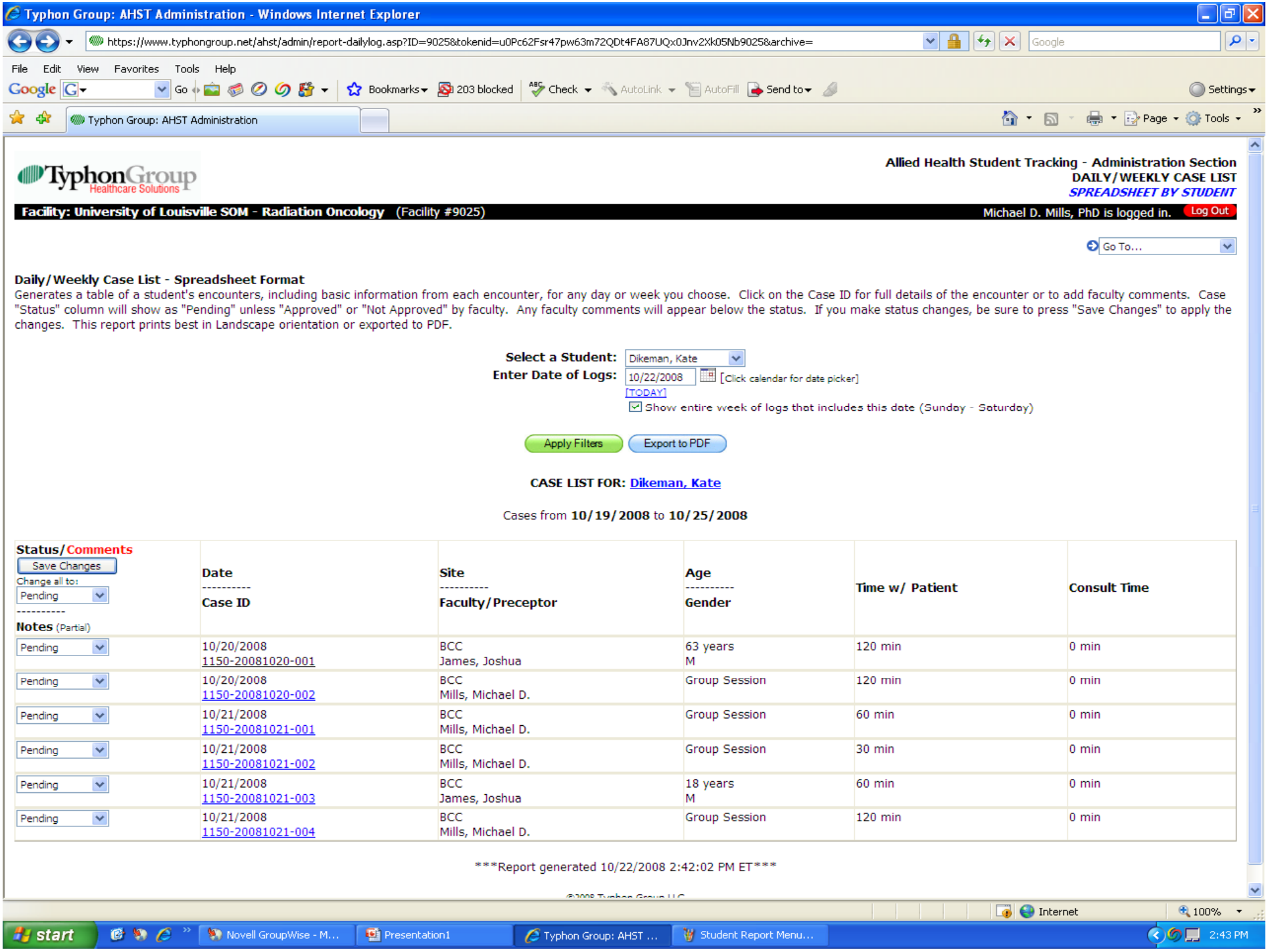
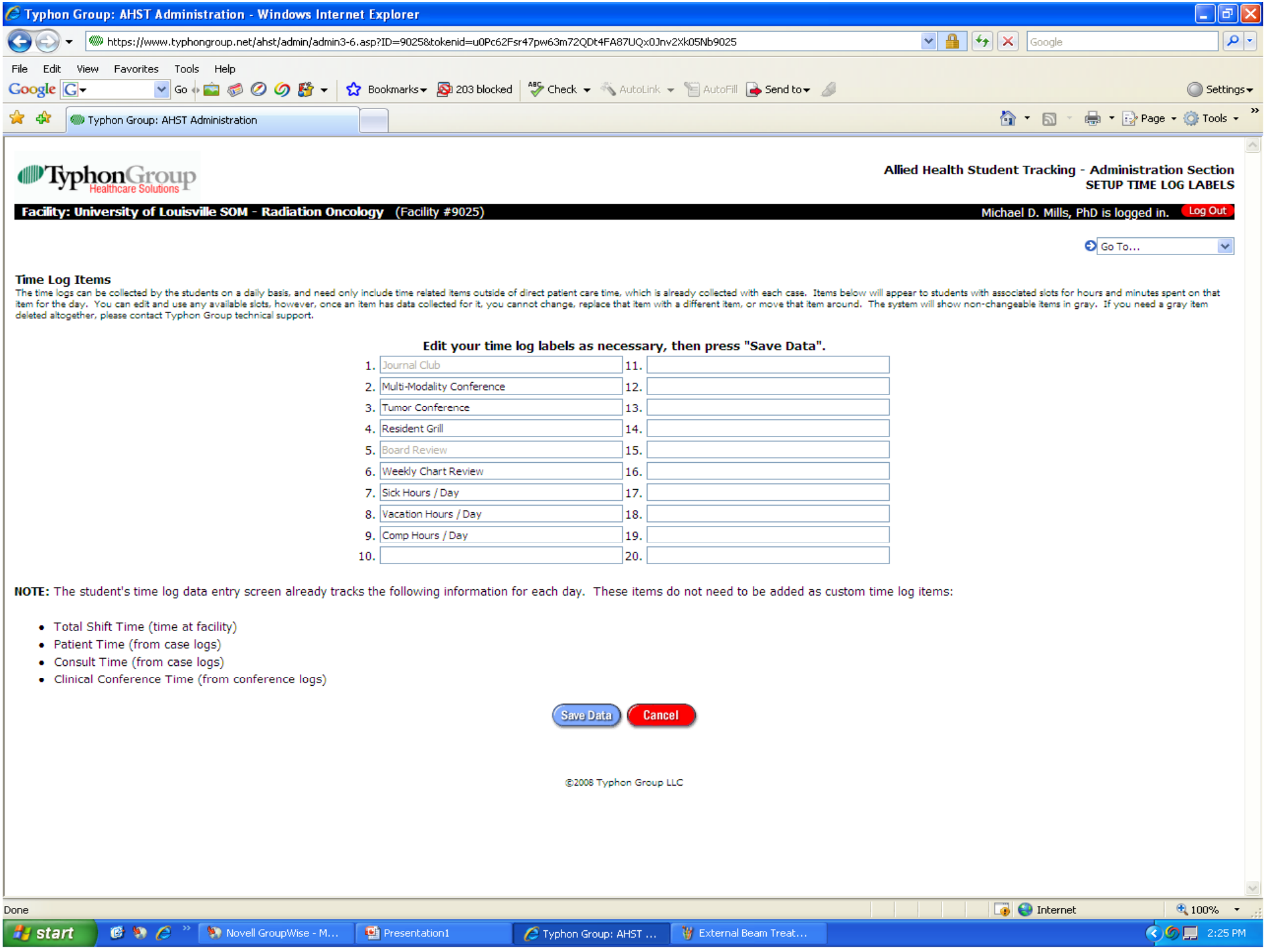
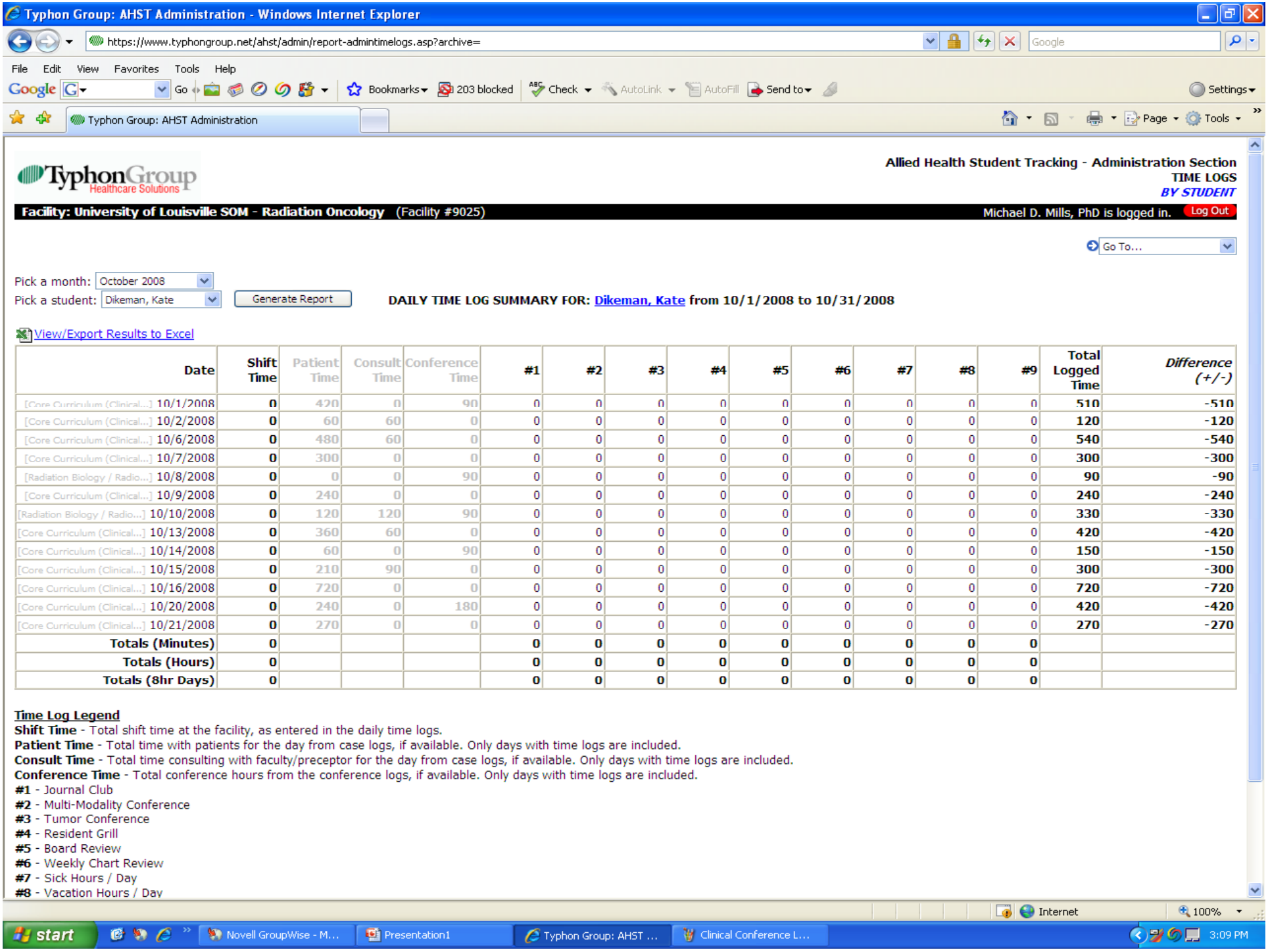

Typhon Group: AHST Administration - Windows Internet Explorer
https://www.typhongroup.net/ahst/admin/report-viewdetail.asp?ID=9025&tokenid=u0Pc62Fsr47pw63m72QDt4FA87UQx0Jnv2Xk05Nb9025&archive=&DataID=330x16Fw
File Edit View Favorites Tools Help
Bookmarks 203 blocked Check AutoLink AutoFill Send to Settings
Typhon Group: AHST Administration
Page Tools
TyphonGroup Healthcare Solutions
Allied Health Student Tracking - Administration Section
PRINTABLE CASE LOGS
INDIVIDUAL CASES
Facility: University of Louisville SOM - Radiation Oncology (Facility #9025)
Michael D. Mills, PhD is logged in. Log Out
Case ID #: 1150-20081020-001
Date of Service: 10/20/2008
Edit Case Status/Comments
Export Export
Student Information - Dikeman, Kate
Semester: Fall
Course: Core Curriculum (Clinical)
Faculty/Preceptor: James, Joshua
Clinical Site: James Graham Brown Cancer Center
Patient Demographics
Age: 63 years
Gender: Male
Clinical Information
Time with Patient: 120 minutes
Consult with Faculty/Preceptor:
Competencies (Observed/Assisted/Done) (Critical in Bold)
IMRT / IGRT - TomoTherapy IMRT DAQ (Done)
Other Questions About This Case
Clinical Notes
Encounter Continuity
Go To Main Menu
Linked encounters: N/A
©2008 Typhon Group LLC
Done
Internet
100%
start
Novell GroupWise - M...
Presentation1
Typhon Group: AHST ...
Weekly Case List.bm...
2:44 PM



OBSERVED	ASSISTED	DONE	REQUIRED	ITEM [CATEGORY]
0	0	0	1	4DCT DQA [RESPIRATORY GATING]
0	0	0	1	4DCT Plan [RESPIRATORY GATING]
0	0	1	1	4DCT Simulation [RESPIRATORY GATING]
0	0	1	1	4D-CT Simulation [EXT BM TREATMENT PLANNING, VERIFICATION]
0	0	0	1	Annual Calibration of Intraoperative Unit [INTRAOPERATIVE ELECTRONS]
0	0	0	1	Annual CT - Simulator Calibration [ANNUAL CALIBRATION - CLINICAL EQUIPMENT]
0	0	1	1	Annual Instrument Intercomparison [ANNUAL CALIBRATION - CLINICAL EQUIPMENT]
0	0	0	1	Annual Intraoperative Linear Accelerator Calib. [ANNUAL CALIBRATION - CLINICAL EQUIPMENT]
0	0	1	2	Annual Linear Accelerator Calibration [ANNUAL CALIBRATION - CLINICAL EQUIPMENT]
0	0	1	1	Annual Simulator Calibration [ANNUAL CALIBRATION - CLINICAL EQUIPMENT]
0	0	1	1	Annual TomoTherapy Hi Art Unit Calibration [ANNUAL CALIBRATION - CLINICAL EQUIPMENT]
0	0	0	1	Billing Procedures [ADMINISTRATIVE AND PROFESSIONAL DUTIES]
0	0	1	1	Breast [EXT BM TREATMENT PLANNING, VERIFICATION]
0	0	0	1	Compensator IMRT DQA [IMRT / IGRT]
0	0	0	1	Compensator IMRT Plan [IMRT / IGRT]
0	0	0	1	CT Simulator Vault [ROOM SHIELDING DESIGN]
0	0	1	1	Custom Electron Cerrobend Block / Device [EXT BM TREATMENT PLANNING, VERIFICATION]
0	0	1	1	Custom Photon Cerrobend Block / Device [EXT BM TREATMENT PLANNING, VERIFICATION]
0	0	0	1	Daily QA - CT Simulator [QUALITY ASSURANCE - DAILY, MONTHLY]
0	0	1	1	Daily QA - Linear Accelerator [QUALITY ASSURANCE - DAILY, MONTHLY]
0	0	0	1	Daily QA - Simulator [QUALITY ASSURANCE - DAILY, MONTHLY]
0	0	0	1	Daily QA - TomoTherapy Hi-Art Unit [QUALITY ASSURANCE - DAILY, MONTHLY]
0	0	1	1	Daily QA - Trilogy Linear Accelerator [QUALITY ASSURANCE - DAILY, MONTHLY]
0	0	7	1	Daily QA of Inraoperative Unit [INTRAOPERATIVE ELECTRONS]
0	0	0	1	DQA with Film [IMRT / IGRT]
0	0	0	1	DQA with Ion Chamber [IMRT / IGRT]
0	0	0	1	DQA with MapCheck [IMRT / IGRT]
0	0	0	1	DQA with Portal Dosimetry [IMRT / IGRT]
0	0	1	1	Fetal Dose Calculation [EXT BM TREATMENT PLANNING, VERIFICATION]
0	0	1	1	GI [EXT BM TREATMENT PLANNING, VERIFICATION]
0	0	0	1	GU [EXT BM TREATMENT PLANNING, VERIFICATION]
0	0	0	1	GYN [EXT BM TREATMENT PLANNING, VERIFICATION]
0	0	0	1	HDR Cervix Plan [BRACHY TREATMENT PLANNING, VERIFICATION]
0	0	0	1	HDR Cervix Plan and Delivery [HDR / LDR BRACHYTHERAPY]
0	0	0	1	HDR Lung Plan [BRACHY TREATMENT PLANNING, VERIFICATION]
0	0	0	1	HDR Lung Plan and Delivery [HDR / LDR BRACHYTHERAPY]
0	0	0	1	HDR Tandem and Ovoids Plan [BRACHY TREATMENT PLANNING, VERIFICATION]
0	0	0	1	HDR Tandem and Ovoids Plan and Delivery [HDR / LDR BRACHYTHERAPY]
0	0	0	1	HDR Vault [ROOM SHIELDING DESIGN]
0	0	1	1	Head and Neck [EXT BM TREATMENT PLANNING, VERIFICATION]
0	0	0	1	I-131 Plan, Release Calculation and Treatment [HDR / LDR BRACHYTHERAPY]
0	0	0	1	Job Search [ADMINISTRATIVE AND PROFESSIONAL DUTIES]
0	0	0	1	LDR Cervix Plan [BRACHY TREATMENT PLANNING, VERIFICATION]
0	0	0	1	LDR Head and Neck Plan [BRACHY TREATMENT PLANNING, VERIFICATION]
0	0	1	1	LDR Interstitial with Ir-192 Plan and Treatment [HDR / LDR BRACHYTHERAPY]
0	0	0	1	LDR Prostate Plan [BRACHY TREATMENT PLANNING, VERIFICATION]
0	0	0	1	LDR Tandem and Ovoid Plan [BRACHY TREATMENT PLANNING, VERIFICATION]
0	0	0	1	LDR Tandem and Ovoids Plan and Treatment [HDR / LDR BRACHYTHERAPY]
0	0	0	1	LDR Tongue Plan [BRACHY TREATMENT PLANNING, VERIFICATION]
0	0	1	1	Linear Accelerator Vault with IMRT / IGRT [ROOM SHIELDING DESIGN]
0	0	1	1	Lung with off-cord [EXT BM TREATMENT PLANNING, VERIFICATION]
0	0	0	1	Lymphoma [EXT BM TREATMENT PLANNING, VERIFICATION]
0	0	0	1	Malpractice and Legal Issues [ADMINISTRATIVE AND PROFESSIONAL DUTIES]
0	0	0	1	Mantle Field by Hand [EXT BM TREATMENT PLANNING, VERIFICATION]
0	0	0	1	Mantle Field using 3-D System [EXT BM TREATMENT PLANNING, VERIFICATION]
0	0	0	1	Melanoma [EXT BM TREATMENT PLANNING, VERIFICATION]
0	0	3	2	Monthly QA - CT Simulator [QUALITY ASSURANCE - DAILY, MONTHLY]
0	0	0	2	Monthly QA - Linear Accelerator [QUALITY ASSURANCE - DAILY, MONTHLY]
0	0	1	2	Monthly QA - Simulator [QUALITY ASSURANCE - DAILY, MONTHLY]
0	0	0	2	Monthly QA - TomoTherapy Hi-Art Unit [QUALITY ASSURANCE - DAILY, MONTHLY]
0	0	0	2	Monthly QA - Trilogy Linear Accelerator [QUALITY ASSURANCE - DAILY, MONTHLY]
0	0	3	2	Monthly QA of Equipment - Constancy Checks [QUALITY ASSURANCE - DAILY, MONTHLY]
0	0	1	1	MU Calculation - Electron Extended SSD [EXT BM TREATMENT PLANNING, VERIFICATION]
0	0	1	1	MU Calculation - Off-axis points [EXT BM TREATMENT PLANNING, VERIFICATION]
0	0	1	1	MU Calculation - Photon Asymmetric collimation [EXT BM TREATMENT PLANNING, VERIFICATION]
0	0	1	1	MU Calculation - Photon Enhanced Dynamic Wedge [EXT BM TREATMENT PLANNING, VERIFICATION]
0	0	1	1	MU Calculation - Photon Extended SSD [EXT BM TREATMENT PLANNING, VERIFICATION]


Typhon Group: AHST Administration - Windows Internet Explorer
https://www.typhongroup.net/ahst/admin/report-dailylog.asp?ID=9025&tokenid=u0Pc62Fsr47pw63m72QDt4FA87UQx0Jnv2Xk05Nb9025&archive=
Typhon Group: AHST Administration
TyphonGroup Healthcare Solutions
Allied Health Student Tracking - Administration Section
DAILY/WEEKLY CASE LIST
SPREADSHEET BY STUDENT
Facility: University of Louisville SOM - Radiation Oncology (Facility #9025)
Michael D. Mills, PhD is logged in.
Log Out
Go To...
Daily/Weekly Case List - Spreadsheet Format
Generates a table of a student's encounters, including basic information from each encounter, for any day or week you choose. Click on the Case ID for full details of the encounter or to add faculty comments. Case "Status" column will show as "Pending" unless "Approved" or "Not Approved" by faculty. Any faculty comments will appear below the status. If you make status changes, be sure to press "Save Changes" to apply the changes. This report prints best in Landscape orientation or exported to PDF.
Select a Student: Dikeman, Kate
Enter Date of Logs: 10/22/2008 [Click calendar for date picker]
[TODAY]
Show entire week of logs that includes this date (Sunday - Saturday)
Apply Filters
Export to PDF
CASE LIST FOR: Dikeman, Kate
Cases from 10/19/2008 to 10/25/2008
Status/Comments
Save Changes
Change all to:
Pending
Notes (Partial)
Date
Case ID
Site
Faculty/Preceptor
Age
Gender
Time w/ Patient
Consult Time
Pending 10/20/2008 1150-20081020-001 BCC James, Joshua 63 years M 120 min 0 min
Pending 10/20/2008 1150-20081020-002 BCC Mills, Michael D. Group Session 120 min 0 min
Pending 10/21/2008 1150-20081021-001 BCC Mills, Michael D. Group Session 60 min 0 min
Pending 10/21/2008 1150-20081021-002 BCC Mills, Michael D. Group Session 30 min 0 min
Pending 10/21/2008 1150-20081021-003 BCC James, Joshua 18 years M 60 min 0 min
Pending 10/21/2008 1150-20081021-004 BCC Mills, Michael D. Group Session 120 min 0 min
Report generated 10/22/2008 2:42:02 PM ET
Internet
100%
start
Novell GroupWise - M...
Presentation1
Typhon Group: AHST ...
Student Report Menu...
2:43 PM


Typhon Group: AHST Administration - Windows Internet Explorer
https://www.typhongroup.net/ahst/admin/admin3-6.asp?ID=9025&tokenid=u0Pc62Fsr47pw63m72QDt4FA87UQx0Jnv2Xk05Nb9025
Typhon Group: AHST Administration
TyphonGroup Healthcare Solutions
Allied Health Student Tracking - Administration Section
SETUP TIME LOG LABELS
Facility: University of Louisville SOM - Radiation Oncology (Facility #9025)
Michael D. Mills, PhD is logged in.
Log Out
Go To...
Time Log Items
The time logs can be collected by the students on a daily basis, and need only include time related items outside of direct patient care time, which is already collected with each case. Items below will appear to students with associated slots for hours and minutes spent on that item for the day. You can edit and use any available slots, however, once an item has data collected for it, you cannot change, replace that item with a different item, or move that item around. The system will show non-changeable items in gray. If you need a gray item deleted altogether, please contact Typhon Group technical support.
Edit your time log labels as necessary, then press "Save Data".
1. Journal Club
2. Multi-Modality Conference
3. Tumor Conference
4. Resident Grill
5. Board Review
6. Weekly Chart Review
7. Sick Hours / Day
8. Vacation Hours / Day
9. Comp Hours / Day
10.
11.
12.
13.
14.
15.
16.
17.
18.
19.
20.
NOTE: The student's time log data entry screen already tracks the following information for each day. These items do not need to be added as custom time log items:
Total Shift Time (time at facility)
Patient Time (from case logs)
Consult Time (from case logs)
Clinical Conference Time (from conference logs)
Save Data
Cancel
©2008 Typhon Group LLC
Done
Internet
100%
start
Novell GroupWise - M...
Presentation1
Typhon Group: AHST ...
External Beam Treat...
2:25 PM



TyphonGroup Healthcare Solutions

Allied Health Student Tracking - Administration Section
TIME LOGS
BY STUDENT

Facility: University of Louisville SOM - Radiation Oncology (Facility #9025) — Michael D. Mills, PhD is logged in. Log Out

Go To...

Pick a month: October 2008
Pick a student: Dikeman, Kate
Generate Report

DAILY TIME LOG SUMMARY FOR: Dikeman, Kate from 10/1/2008 to 10/31/2008

View/Export Results to Excel

Date	Shift Time	Patient Time	Consult Time	Conference Time	#1	#2	#3	#4	#5	#6	#7	#8	#9	Total Logged Time	*Difference (+/-)*
[Core Curriculum (Clinical...] 10/1/2008	0	420	0	90	0	0	0	0	0	0	0	0	0	510	-510
[Core Curriculum (Clinical...] 10/2/2008	0	60	60	0	0	0	0	0	0	0	0	0	0	120	-120
[Core Curriculum (Clinical...] 10/6/2008	0	480	60	0	0	0	0	0	0	0	0	0	0	540	-540
[Core Curriculum (Clinical...] 10/7/2008	0	300	0	0	0	0	0	0	0	0	0	0	0	300	-300
[Radiation Biology / Radio...] 10/8/2008	0	0	0	90	0	0	0	0	0	0	0	0	0	90	-90
[Core Curriculum (Clinical...] 10/9/2008	0	240	0	0	0	0	0	0	0	0	0	0	0	240	-240
[Radiation Biology / Radio...] 10/10/2008	0	120	120	90	0	0	0	0	0	0	0	0	0	330	-330
[Core Curriculum (Clinical...] 10/13/2008	0	360	60	0	0	0	0	0	0	0	0	0	0	420	-420
[Core Curriculum (Clinical...] 10/14/2008	0	60	0	90	0	0	0	0	0	0	0	0	0	150	-150
[Core Curriculum (Clinical...] 10/15/2008	0	210	90	0	0	0	0	0	0	0	0	0	0	300	-300
[Core Curriculum (Clinical...] 10/16/2008	0	720	0	0	0	0	0	0	0	0	0	0	0	720	-720
[Core Curriculum (Clinical...] 10/20/2008	0	240	0	180	0	0	0	0	0	0	0	0	0	420	-420
[Core Curriculum (Clinical...] 10/21/2008	0	270	0	0	0	0	0	0	0	0	0	0	0	270	-270
Totals (Minutes)	0				0	0	0	0	0	0	0	0	0		
Totals (Hours)	0				0	0	0	0	0	0	0	0	0		
Totals (8hr Days)	0				0	0	0	0	0	0	0	0	0		

Time Log Legend
Shift Time - Total shift time at the facility, as entered in the daily time logs.
Patient Time - Total time with patients for the day from case logs, if available. Only days with time logs are included.
Consult Time - Total time consulting with faculty/preceptor for the day from case logs, if available. Only days with time logs are included.
Conference Time - Total conference hours from the conference logs, if available. Only days with time logs are included.
#1 - Journal Club
#2 - Multi-Modality Conference
#3 - Tumor Conference
#4 - Resident Grill
#5 - Board Review
#6 - Weekly Chart Review
#7 - Sick Hours / Day
#8 - Vacation Hours / Day

Typhon Group: AHST Administration - Windows Internet Explorer
https://www.typhongroup.net/ahst/admin/report-adminconference.asp?archive=
File Edit View Favorites Tools Help
Typhon Group: AHST Administration

	[Associated Course: Journal Club]		
8/25/2008	**Organizational Meeting** *Dr. Zundel* [Associated Course: Radiation Biology / Radiobiology Review]	**1.5**	**N**
9/3/2008	**Signaling Pathways Impacting Radiation Sensitivity** *Dr. Robert Mitchell* [Associated Course: Radiation Biology / Radiobiology Review]	**1.5**	**N**
9/8/2008	**Multi-step Theory of Cancer (Stem Cells)** *Dr. Doug Dean* [Associated Course: Radiation Biology / Radiobiology Review]	**1.5**	**N**
9/10/2008	**Mechanics of Cell Death and Cell Fate** *Dr. Chi Li* [Associated Course: Radiation Biology / Radiobiology Review]	**1.5**	**N**
9/12/2008	**Hereditary Effects of Radiation and Radiation Sensitive Syndromes** *Dr. States* [Associated Course: Radiation Biology / Radiobiology Review]	**1.5**	**N**
9/17/2008	**DNA Repair Mechanisms** *Dr. McGregor* [Associated Course: Radiation Biology / Radiobiology Review]	**1.5**	**N**
9/19/2008	**M&M, Head & Neck Tx** *Dr. Jose, Dr. Freeman, and Dr. Baht* [Associated Course: Core Curriculum (Clinical)]	**2.0**	**N**
9/26/2008	**Stereotactic Body Radiation Therapy** *Dr. Owens and Kate Dikeman* [Associated Course: Journal Club]	**1.5**	**N**
9/26/2008	**Tumor Microenvironment Angiogenesis & Metastasis** *Dr. Zundel* [Associated Course: Radiation Biology / Radiobiology Review]	**1.5**	**N**
10/1/2008	**Introduction to Radiation Biology** *Dr. Zundel* [Associated Course: Radiation Biology / Radiobiology Review]	**1.5**	**N**
10/8/2008	**Cell, Tissue, and Tumor Kinetics in Radiotherapy** *Dr. Bechtel* [Associated Course: Radiation Biology / Radiobiology Review]	**1.5**	**N**
10/10/2008	**Chromosomal Damage** *Dr. Zundel* [Associated Course: Radiation Biology / Radiobiology Review]	**1.5**	**N**
10/14/2008	**Survival Curves** *Dr. Spanos* [Associated Course: Radiation Biology / Radiobiology Review]	**1.5**	**N**
10/20/2008	**Normal Tissue Responses in XRT**	**3.0**	**N**

Done
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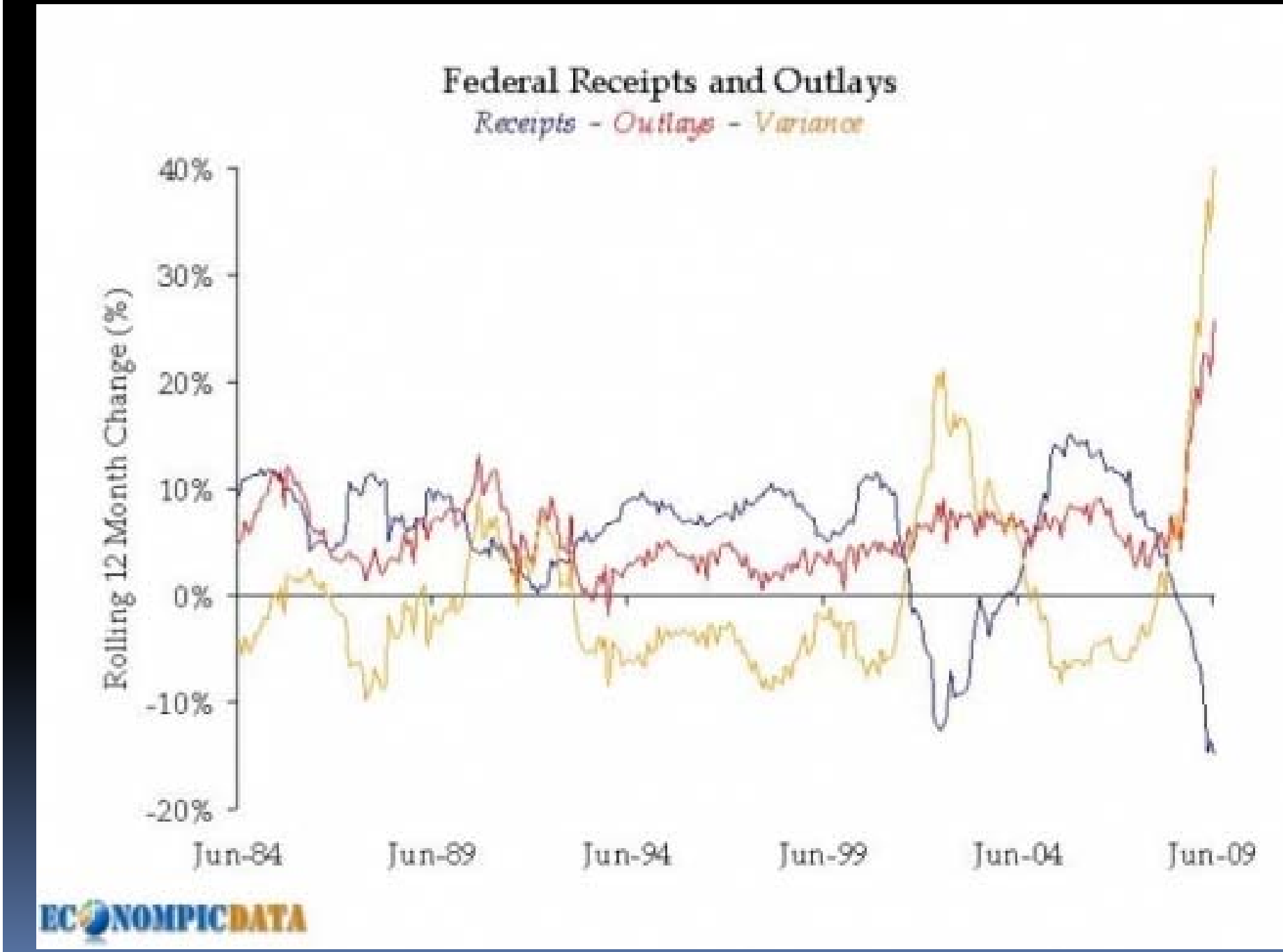
Novell GroupWise - M...
Presentation1
Typhon Group: AHST ...
Competency Totals.b...
3:07 PM


Federal Receipts and Outlays
Receipts - Outlays - Variance
Rolling 12 Month Change (%)
40%
30%
20%
10%
0%
-10%
-20%
Jun-84
Jun-89
Jun-94
Jun-99
Jun-04
Jun-09
ECONOMICDATA

Clinical Physics Rotations (in months) TG133

Trainee NAM

Rotation	Mentor(s)	2005 Jul	Aug	Sep	Oct	Nov	Dec	2006 Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2007 Jan	Feb	Mar	Apr	May	Jun
Orientation	Faculty	NAM																							
Dosimetric systems acceptance testing/ commissioning/ QA	Faculty		NAM																						
on call physicist (POD) / Plan Check	Faculty			NAM																					
Treatment machine QA	Faculty	NAM																							
Shielding / room design	Faculty													NAM											
Radiation safety	Faculty											NAM													
Treatment machine ATP, survey, commissioning (see note 1)	Faculty							NAM																	
Treatment machine calibration (TG51)	Faculty							NAM																	
Simulator acceptance testing and QA (FluoroIB	Faculty									NAM															
Simulator acceptance testing and QA (CT-sim3)B	Faculty											NAM													
External beam treatment planning	Faculty					NAM																			
TPS commissioning	Faculty												NAM												
MU calculations(2 months)	Faculty				NAM	NAM																			
IMRT Planning (2 months and follows ExBeam Tx Planning	Faculty										NAM														
IMRT QA (1 month and follows IMRT planning)	Faculty												NAM												
Special applications (777370 diodes, EPID) before POD	Faculty													NAM											
Stereotactic (Gamma knife / SRT, see note 2)	Faculty														NAM										
IORT	Faculty																	NAM							
Brachytherapy: sources/ calibrations/ safety/ regulations	Faculty															NAM									
Satellite practice rotation	Faculty														NAM										

(1) If a machine is not installed in this time period, then a "mock" ATP & commissioning will be done during the next annual QA in January.
(2) During rotation period, expectations include at least two complete SRT cases, gamma knife QA and annual (2 pp), and 6 patient coverage days on gamma knife.

- Rotation window
- Didactic instruction
- Observation prior to rotation/participation
- Responsible window
- Responsible and Teaching

Pertinent AAPM Report 133 Recommendations

- All clinical training programs—residency, postdoctoral, OJT, graduate—should consider applying for CAMPEP accreditation through this mechanism.
- Existing accredited academic centers agree to affiliate relationships to foster and facilitate standard, high quality training.
- Time Frame for Implementation: TG133 believes that the affiliate mechanisms for accredited training can be implemented now. By 2010, examples of these programs will have come into existence.

Summary and Conclusions

- 2014 will require distributed training for medical physics residency programs.
- We now know with reasonable certainty we will need to train a minimum of 125 and ideally 175 radiation oncology physicists each year after 2014
- The Typhon Group software tools and database will allow tracking of resident case reports, coursework, competencies and time.
- As a web based tool, the Typhon Group software tools may be used simultaneously by any number of clinical sites for a given program.
- Such tools are a necessary component if the medical physics profession is to meet the projected needs for qualified medical physicists in future years.

I AM A VICTIM OF
My OWN ADMINISTRATION

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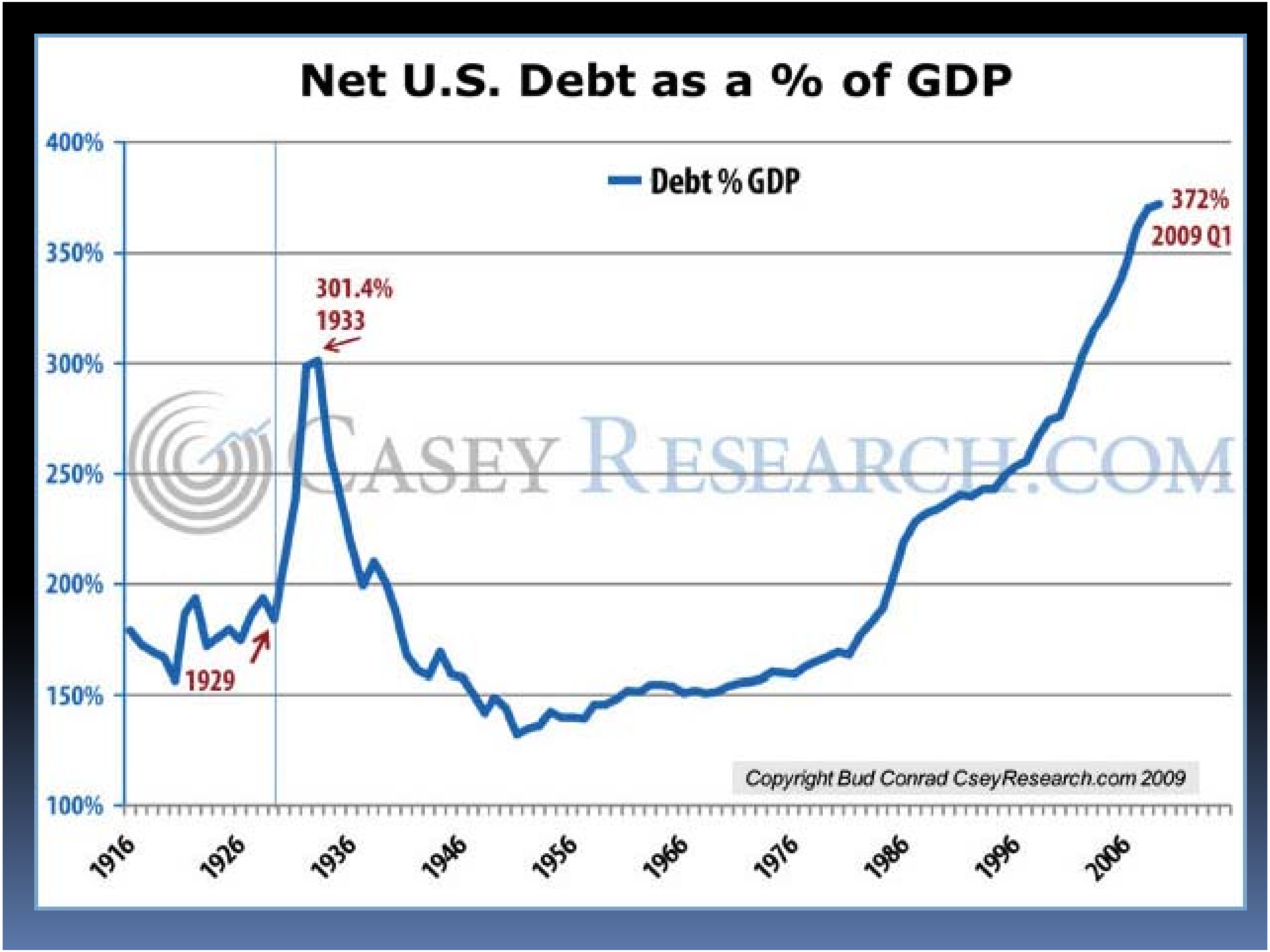
Net U.S. Debt as a % of GDP
Debt % GDP
400%
350%
300%
250%
200%
150%
100%
301.4%
1933
372%
2009 Q1
1929
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1916
1926
1936
1946
1956
1966
1976
1986
1996
2006

We will have a health care plan that is written by a committee whose head says he doesn't understand it, passed by a Congress who hasn't read it but exempts themselves from it, signed by a president who also hasn't read it, and who smokes, with funding administered from our taxes by a treasury chief who didn't pay his taxes, overseen by a surgeon general who is overweight (not that there is anything wrong with that), and financed by a country that is completely broke and which faces 100 trillion dollars in unfunded liabilities, and that includes support for our future residents.

THE END