2° international workshop on interim PET in lymphoma

Menton, April 8, 2010

The GITIL network

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WEB imaging exchange

WEB based toolkit

1) To be user friendly: as an internet page

*2) To permit **fast** image exchange: some minutes trough the net*

3) To assure security of patients' data: anonymisation

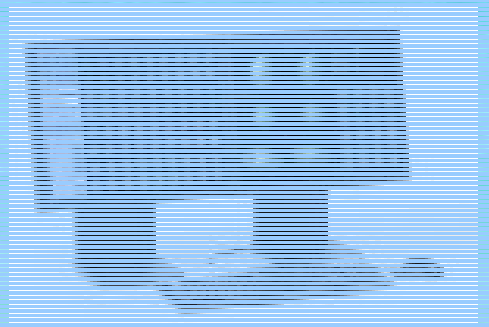
4) To be cheap/free: freeware SW, no HW needed

5) To bypass "hospital network": use internet

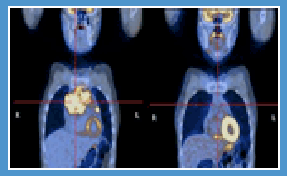
Local centre

Logistic of image exchange

Everything within 3 days



PET review panel



GITIL

Gruppo Italiano Terapie Innovative nei Linfom...

Local centre log into site

Login

Email:

Password:

Login

[Forgot password]

INFO

You need to login in order to access the site's resources.

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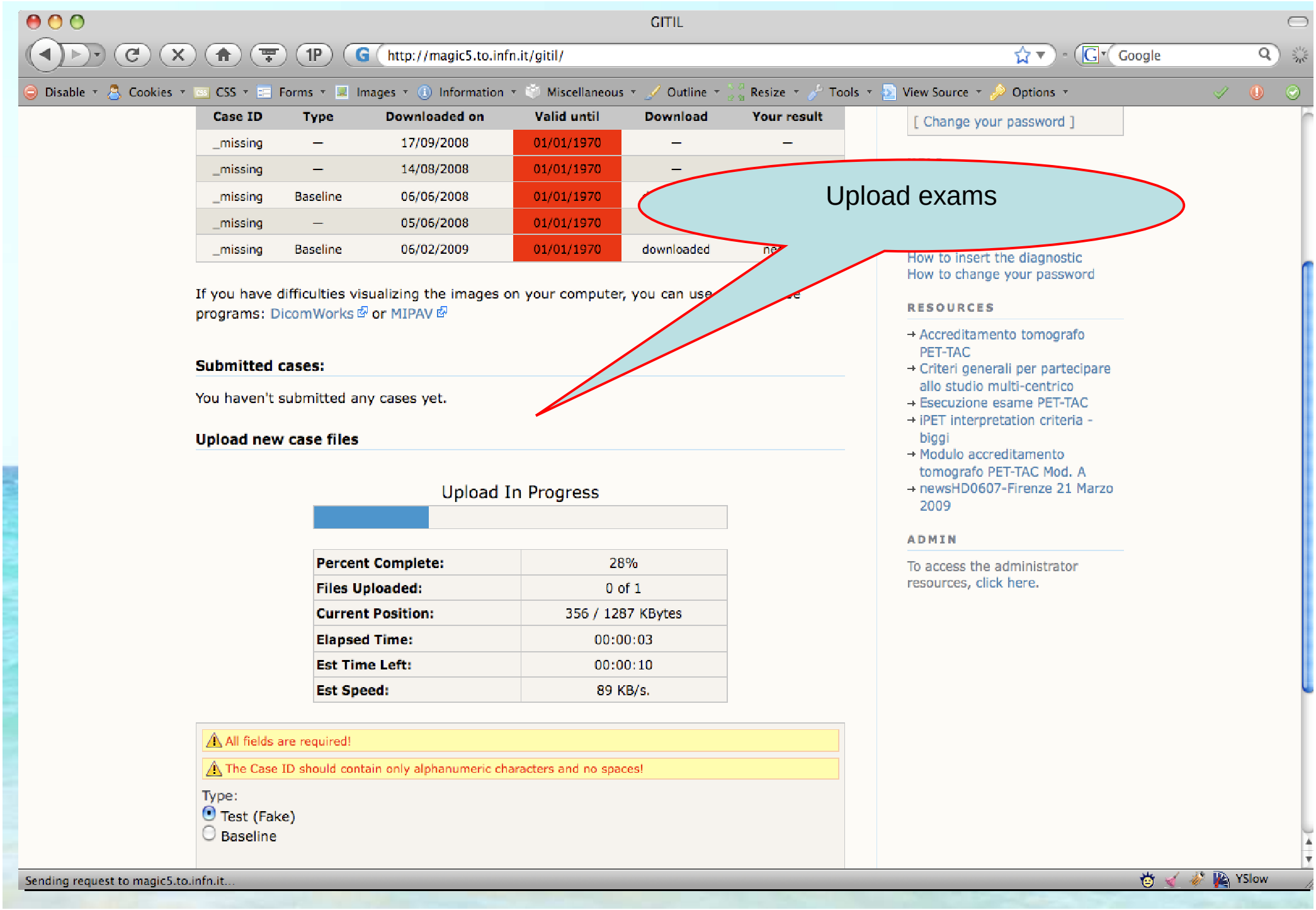


Case ID	Type	Downloaded on	Valid until	Download	Your result
_missing	–	17/09/2008	01/01/1970	–	–
_missing	–	14/08/2008	01/01/1970	–	
_missing	Baseline	06/06/2008	01/01/1970		
_missing	–	05/06/2008	01/01/1970		
_missing	Baseline	06/02/2009	01/01/1970	downloaded	ne

If you have difficulties visualizing the images on your computer, you can use programs: DicomWorks or MIPAV

Submitted cases:

You haven't submitted any cases yet.

Upload new case files

Percent Complete:	28%
Files Uploaded:	0 of 1
Current Position:	356 / 1287 KBytes
Elapsed Time:	00:00:03
Est Time Left:	00:00:10
Est Speed:	89 KB/s.

All fields are required!

The Case ID should contain only alphanumeric characters and no spaces!

Type:
- (•) Test (Fake)
- ( ) Baseline

[Change your password]

How to insert the diagnostic
How to change your password

RESOURCES

- Accreditamento tomografo PET-TAC
- Criteri generali per partecipare allo studio multi-centrico
- Esecuzione esame PET-TAC
- iPET interpretation criteria - biggi
- Modulo accreditamento tomografo PET-TAC Mod. A
- newsHD0607-Firenze 21 Marzo 2009

ADMIN

To access the administrator resources, click here.

reviewers receive
e-mail and SMS with links

Inbox -

File

Create Mail | Reply | Reply All | Forward | Print | Delete | Send/Recv | Addresses | Find

Inbox

Folders

- Outlook Express
- Local Folders
  - Inbox (8)
    - Associazioni
    - Congressi e articoli
    - Cuneo
    - Università
    - Varia
  - Outbox
  - Sent Items
  - Deleted Items (49)
  - Drafts (7)

Received	From	Subject
24/01/2008 9.34	cerello@to.infn.it	Re: site linfomi
24/01/2008 9.06	Cyrill Burger (PMOD)	Re: Dr. Kaufmann :-(
24/01/2008 8.37	valentina d'Alesio	R: consiglio spassionato
24/01/2008 8.29	Alex Stancu	Re: site linfomi
23/01/2008 22.42	Cyrill Burger (PMOD)	Dr. Kaufmann :-(
23/01/2008 22.02	Alex Stancu	site linfomi
23/01/2008 17.50	elspcs@elsevier.com	Elsevier Health Science Periodicals - January 23, 2008
23/01/2008 16.53	Roberto Cirio	Seminario della Scuola di Specializzazione in Fisica Sanitaria
23/01/2008 15.47	Emiliano Spezi	The UK forum for users of Monte Carlo Neutron, Electron and Gamma r.
23/01/2008 14.47	Roberto Cirio	

From: Alex Stancu **To:** chauvie Stephane **Cc:** Piergiorgio Cerello
Subject: Re: site linfomi

ok, since you are not receiving any mails, in order to test the download process, here are some links:

http://magic5.to.infn.it/site/_linfo/accept.php?fid=beb4965cb9a0e5647f1041db075b512c
http://magic5.to.infn.it/site/_linfo/accept.php?fid=01da56ef74e8378c174cb1404cea44df
http://magic5.to.infn.it/site/_linfo/accept.php?fid=4249c0cf9a310ad591c985d2ef81b3b2
http://magic5.to.infn.it/site/_linfo/accept.php?fid=50347b308d2654f2b563f32ac1fcc374
http://magic5.to.infn.it/site/_linfo/accept.php?fid=09561d1080378b3c8f68f21239b499dc

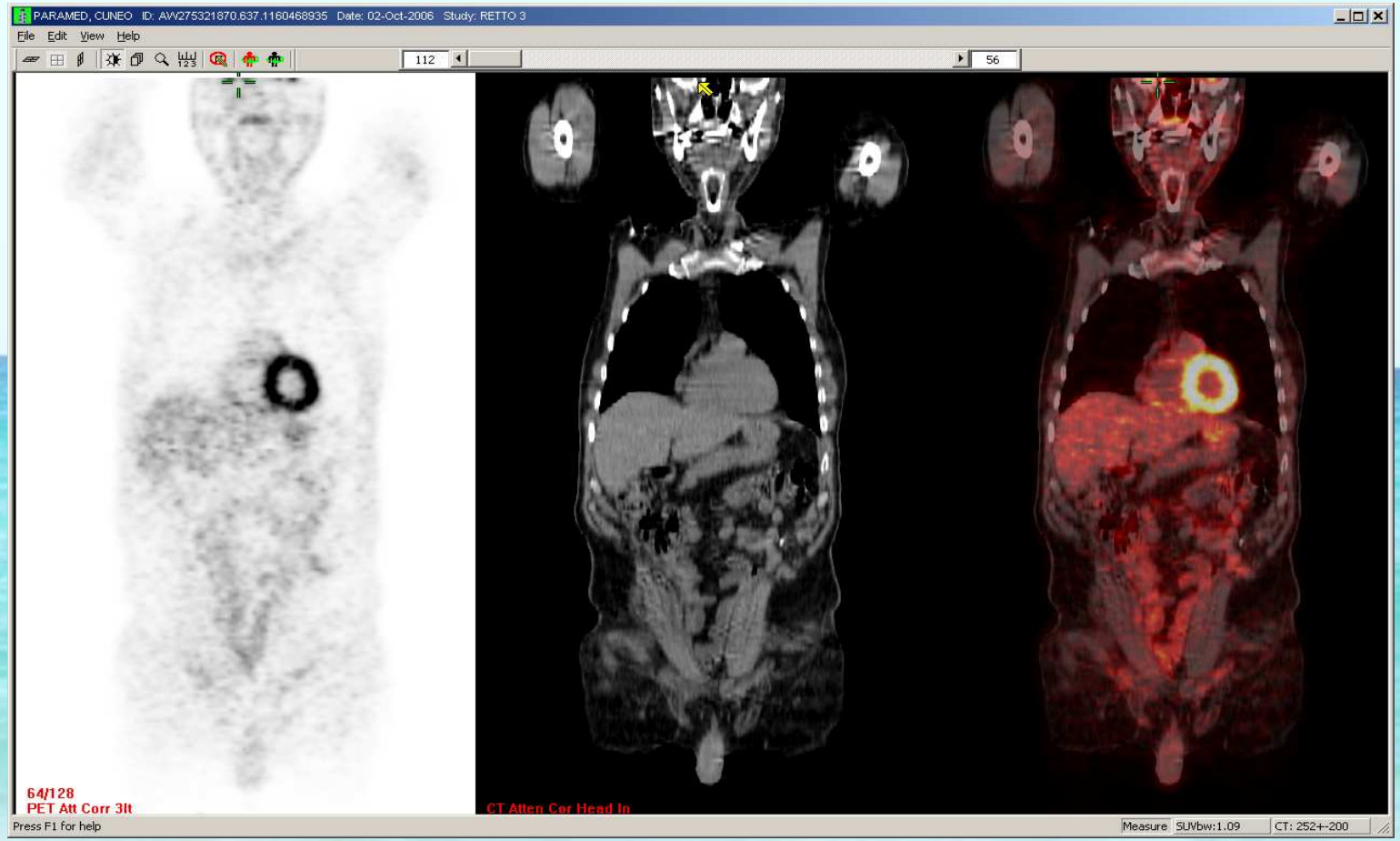
the files below are the ones that you have uploaded. since you are the up-loader, you are not allowed to download them. however, you can download the files above.
http://magic5.to.infn.it/site/_linfo/accept.php?fid=87aa43f5df51c82ffdf650ef0461bb46
http://magic5.to.infn.it/site/_linfo/accept.php?fid=e148534ba7b2ca130adc5039bba91a86

for testing purposes you can use also the user **test@test.com** with the password **test**

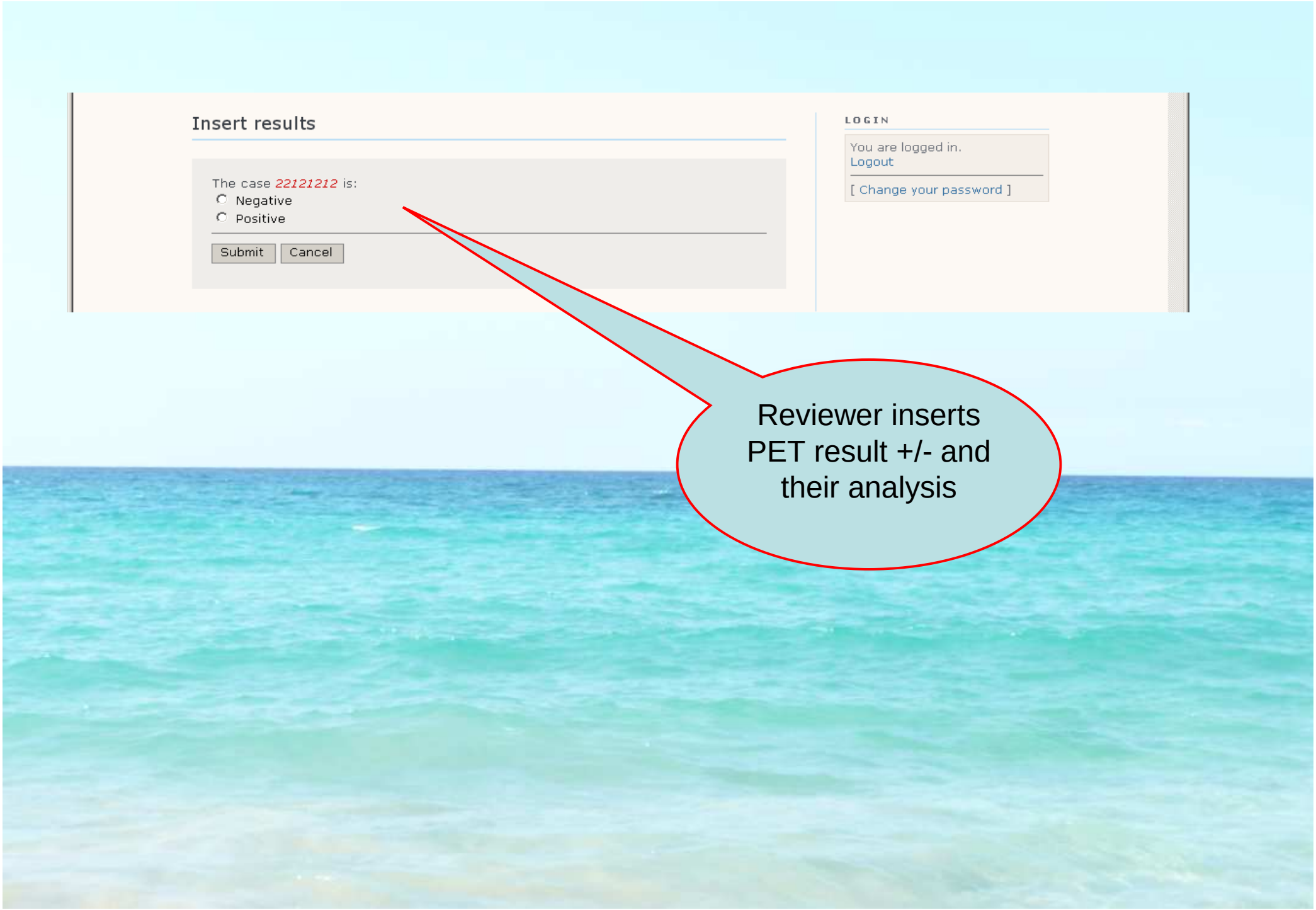
On Jan 24, 2008 8:52 AM, chauvie Stephane <chauvie_s@...> wrote:

67 message(s), 8 unread | Working Online

PET reviewers use their own SW to evaluate images



Or use: http://bidmc.harvard.edu/content/bidmc/Departments/Radiology/nm_download.asp


Insert results
The case 22121212 is:
Negative
Positive
Submit
Cancel
LOGIN
You are logged in.
Logout
[Change your password]
Reviewer inserts PET result +/- and their analysis

Haematologist receive
e-mail and SMS with PET results

Inbox - Outlook Express

File Edit View Tools Message Help

Create Mail | Reply | Reply All | Forward | Print | Delete | Send/Recv | Addresses | Find

Inbox

Folders

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- Local Folders
  - Inbox (8)
    - Associazioni
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http://magic5.to.infn.it/site/_linfo/accept.php?fid=01da56ef74e8378c174cb1404cea44df
http://magic5.to.infn.it/site/_linfo/accept.php?fid=4249c0cf9a310ad591c985d2ef81b3b2
http://magic5.to.infn.it/site/_linfo/accept.php?fid=50347b308d2654f2b563f32ac1fcc374
http://magic5.to.infn.it/site/_linfo/accept.php?fid=09561d1080378b3c8f68f21239b499dc

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http://magic5.to.infn.it/site/_linfo/accept.php?fid=87aa43f5df51c82ffdf650ef0461bb46
http://magic5.to.infn.it/site/_linfo/accept.php?fid=e148534ba7b2ca130adc5039bba91a86

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67 message(s), 8 unread | Working Online

Users

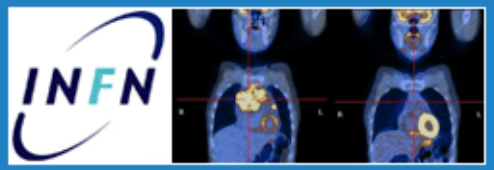
1) Prospective GITIL trial

2) Retrospective IVS HD study

3) Retrospective ABVD-BEACOPP study

4) Observational PLRG study

5) ….



GITIL

Gruppo Italiano Terapie Innovative nei Linfomi

Study statistics

PATIENTS & CASES:

	Total	Males	Females	Min age	Max age	Median age
Patients included in the study	168	81	87	18	59	31
Patients out of the study	5	3	2	22	56	37
Cases submitted so far*	48	28	20	19	59	31
Cases evaluated so far	45	26	19	—	—	—
Negative cases	25	12	13	—	—	—
Positive cases	20	14	6	—	—	—

* Excluding the cases of the patients that opted out of the study at some point.

USERS & CENTERS:

	Total	Submitters	Reviewers	Hematos	Study Admins	Super Admins	Testers
Number of users	99	35	8	36	4	4	12
Number of centers	35						

UPLOAD/DOWNLOAD TIMES:

	Min	Max	Median
Upload time[1]	0:00:17	1:22:31	0:05:12
Download time[2]	0:00:00	0:54:44	0:02:07

1. Time is per case (two files).
2. Time is per file.

Image upload

Submitters: some problem the first time tricky theans straightford

Reviewers are very fast (same day)

Admin utilities – *case upload times*

case upload times | reviewer's time frames | results per reviewer

Case ID	Starting time	Ending time	Upload time	Files size
00123	01/02/2010 10:20:29	01/02/2010 10:20:46	0:00:17	72.2 MB
00125	26/01/2010 09:03:25	26/01/2010 09:04:56	0:01:31	85.4 MB
00088	20/01/2010 15:22:45	20/01/2010 15:28:53	0:06:08	149.0 MB
00111	22/12/2009 09:29:00	22/12/2009 09:38:21	0:09:21	99.4 MB
00113	17/12/2009 08:29:34	17/12/2009 08:30:49	0:01:15	153.5 MB
00112	15/12/2009 15:08:11	15/12/2009 15:09:32	0:01:21	147.1 MB
00102	27/11/2009 09:29:08	27/11/2009 09:33:47	0:04:39	127.4 MB
00101	24/11/2009 18:18:06	24/11/2009 18:23:38	0:05:32	151.4 MB
00119	20/11/2009 10:42:21	20/11/2009 12:04:52	1:22:31	123.4 MB
00106	14/11/2009 10:48:11	14/11/2009 10:53:45	0:05:34	152.0 MB
00098	10/11/2009 11:47:26	10/11/2009 11:52:19	0:04:53	133.4 MB
00091	26/10/2009 11:51:53	26/10/2009 11:55:48	0:03:55	108.9 MB
33eotPET	07/10/2009 15:09:27	07/10/2009 15:19:45	0:10:18	79.4 MB
00075	30/09/2009 20:16:23	30/09/2009 21:18:15	1:01:52	469.1 MB
00087	30/09/2009 11:08:13	30/09/2009 11:15:33	0:07:20	106.5 MB
00092	11/09/2009 11:46:23	11/09/2009 11:48:19	0:01:56	125.2 MB
00071	09/09/2009 12:49:27	09/09/2009 12:56:03	0:06:36	294.5 MB
00072	21/08/2009 12:55:45	21/08/2009 12:56:54	0:01:09	136.0 MB
00059	13/08/2009 17:48:48	13/08/2009 17:53:09	0:04:21	117.4 MB

Cohen's Kappa:

	1	2	3	4	5	6
1	1,00	0,84	0,70	0,63	0,53	0,74
2	0,84	1,00	0,94	0,66	0,84	0,84
3	0,70	0,94	1,00	0,58	0,72	0,88
4	0,63	0,66	0,58	1,00	0,63	0,58
5	0,53	0,84	0,72	0,63	1,00	0,68
6	0,74	0,84	0,88	0,58	0,68	1,00

GITIL concordance

Agreement between reviewers: reviewers

Concordance at 100%:
44 cases
Average Concordance:
0.96

Summary statistics:

1	2	3	4	5	N	Median	Mean	Variance
119	88	55	27	9	298	2.000	2.057	1.219
22	3	17	5	1	48	2.000	2.167	1.418
25	11	7	2	4	49	1.000	1.959	1.582
10	25	11	6		52	2.000	2.250	0.819
14	18	9	3	1	45	2.000	2.089	0.992
17	24	8	4	1	54	2.000	2.037	0.942
31	7	3	7	2	50	1.000	1.840	1.607

Agreement between reviewers

Cohen's Kappa

<0.2 = poor
0.21–0.40 = fair
0.41–0.60 = moderate
0.61–0.80, = substantial
>0.81 = almost perfect

1	0.48	0.67	0.77	0.79	0.36
0.48	1	0.53	0.71	0.65	0.54
0.67	0.53	1	1.00	0.89	0.52
0.77	0.71	1.00	1	1.00	0.52
0.79	0.65	0.89	1.00	1	0.57
0.36	0.54	0.52	0.52	0.57	1

Liver in IVS HL study

SUVmax in liver

Baseline	Interim
2.81±0.61	2.63±0.71
2.39	2.54

Thanks for the attention