



# *AAPM Dose Check Education Slides*

Hitachi Medical Systems America



## *Disclaimer*

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## Disclaimer

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- Screen captures are **examples** of a common (or latest) software version only and all software versions are not represented
- The information contained herein is current as of the date shown on the title slide
- Modification of the content of these slides is **not allowed**.



## User Access Controls

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- Access Control for Dose Notifications
- Access Control for Dose Alerts
- Waiting for FDA clearance for new software
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# Configuring Dose Notifications

## Global Notification Setting



Go to Protocol Setting, click Edit under Dose Check. Enter Global Alert Value in (mGy) in Dose Alert Setting window, click OK, then Save& Exit.



# Configuring Dose Alerts

## Protocol Specific Settings

Dose Information

Seq.No.	DLP[mGy-cm]	CTDIvol[mGy]	Notification Value(CTDIvol)[mGy]
1	427.1	11.0	50.0

Total CTDIvol[mGy] : 11.0  
Alert Value(CTDIvol)[mGy] : 1000.0

Cancel OK

Under Protocol Settings, pick protocol, go to Dose Information, enter Notification Level (in mGy) and click OK then Save & Exit.



# Acknowledging Notifications

Dose Notification

Seq.No.	DLP[mGy·cm]	CTDIvol[mGy]	Notification Value(CTDIvol)[mGy]
2	321.6	80.4	80.0

Total CTDIvol[mGy] : 80.4  
Alert Value(CTDIvol)[mGy] : 1000.0

A Dose Notification Value will be exceeded.  
Please click the "Confirm" button to scan.

Click Confirm to continue or Cancel to go back to edit protocol parameters or end exam.



## Acknowledging Dose Alerts

Dose Alert

Seq.No.	DLP[mGy·cm]	CTDIvol[mGy]	Notification Value(CTDIvol)[mGy]
2	321.6	80.4	80.0
3	321.6	80.4	80.0
4	321.6	80.4	80.0
5	321.6	80.4	80.0

Total CTDIvol[mGy] : 1366.8  
Alert Value(CTDIvol)[mGy] : 1000.0

A Dose Alert Value will be exceeded.  
Please input a password and click the "Confirm" button to scan.

Password: \*\*\*\*

Study Information

Input the study information. Operator Name must be entered.

Examination Date: 03/31/2015  
Patient ID: 20150331-1  
Operator Name: CMS  
Reason for exceeded dose: Okayed per Dr. Doe

Enter Password and Confirm. A Study Information window will appear. Technologist *must* enter initials or name. Enter a reason for the exceeded dose in appropriate window (Optional.) Click OK to proceed with exam.

Click cancel to edit parameters or end exam.





## Password (user name in new software)

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Dose Check Password Setting

Old password  Confirm

New password

Confirm new password

Password activation

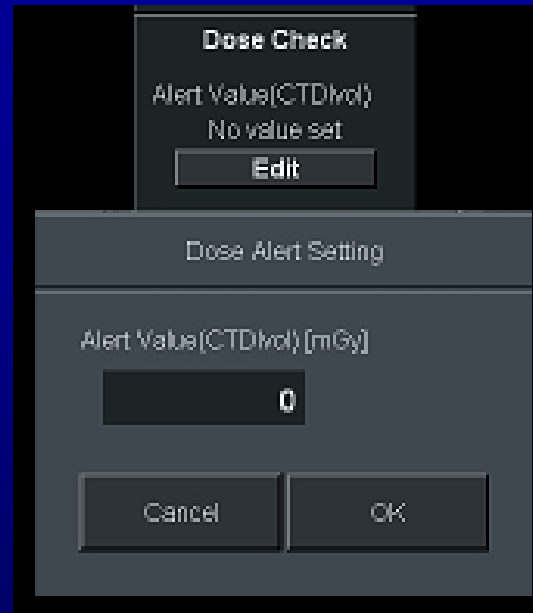
OK Cancel

- Password function has been disabled by default at the factory. To enable, go to Preference Settings. Click the Settings button next to Dose Check Password. Turn Password activation to ON. Create and Confirm password. Click Save & Exit button in Preferences window to save.
- An existing password may also be changed in this window.



# Turning off Dose Alert Feature

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Go to Protocol Setting, click Edit under Dose Check. Enter 0 (zero) in (CTDvol) (mGy) in Dose Alert Setting window, click OK.Alert value will = No value set. Click Save & Exit button.



# Location of alert/notification log

- To obtain Log, go to Menu/Exit, Dose History

The screenshot shows a window titled "Dose History" with a table of patient scan data. The table has columns for Patient ID, Patient Name, Exam Date, Region, Total CT Dose (mGy), DLP (mGy\*cm), and Alert Value. The data is as follows:

Patient ID	Patient Name	Exam Date	Region	Total CT Dose (mGy)	DLP (mGy*cm)	Alert Va
20150327-5	LOW_CONTRAST	03/27/2015	Head	1003.8	125.5	1000.0
20150327-4	NONE	03/27/2015	Cardiac	92.7	2164.2	1000.0
20150327-2	NONE	03/27/2015	Abdomen-Pelvis	10.9	489.2	1000.0
20150327-1	TEST128	03/27/2015	Abdomen	17.7	797.1	1000.0
20150326-4	NONE	03/26/2015	Abdomen-Pelvis	24.8	455.7	1000.0
20150326-2	NONE	03/26/2015	Cardiac	472.2	9132.5	1000.0
20150325-1	DOSE CHECK	03/25/2015	Abdomen-Pelvis	19.2	1335.4	1000.0
20150320-4	FRAMES PER	03/20/2015	Abdomen-Pelvis	7.2	500.1	1000.0
20150320-3	298243T5SEWT	03/20/2015	QA	27.1	108.5	1000.0
test1	TEST1	03/16/2015	QA	27.1	108.5	1000.0
20150316-1	TEST	03/16/2015	QA	27.1	108.5	1000.0
20150316-1	TEST	03/16/2015	QA	27.1	108.5	1000.0
20150311-1	ABC COIL	03/11/2015	Mandibular Sinus	72.2	792.8	1000.0
daily op	NONE	03/04/2015	QA	27.1	108.5	1000.0
20150304-2	DA QC	03/04/2015	QA	27.1	108.5	1000.0
dsghdtdgd	NONE	03/03/2015	QA	81.4	325.4	1000.0
drj	NONE	03/02/2015	Head	157.5	771.2	1000.0

- At this time dose report info cannot be exported into any other format.