AAPM Dose Check Education Slides
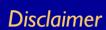
GE Healthcare

Last updated: 05/29/15

Disclaimer

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Disclaimer

- 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
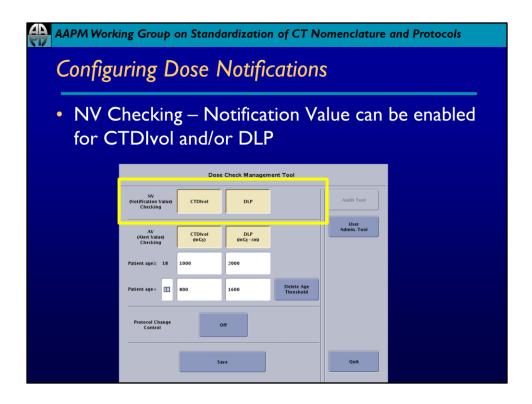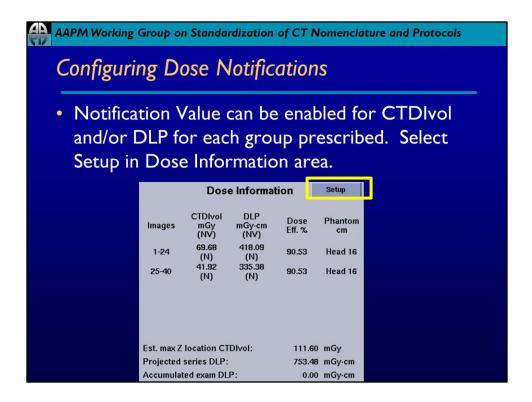- Modification of the content of these slides is not allowed.

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User Access Controls

- Access Control for Dose Notifications
- *Notification Checking is enabled at the global level. User can set Notification Value for each protocol at the series or group level and separately for SmartPrep.*

- Access Control for Dose Alerts
- *Alert Checking is enabled at the global level. User can define a Alert Value for CTDIvol and/or DLP for adults and pediatrics if desired.*
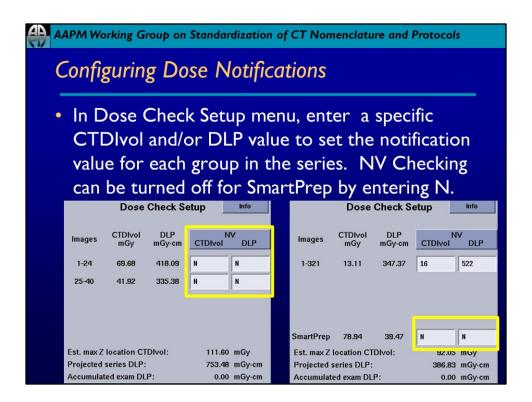
Dose Notification Checking is enabled at global level. The Notification Values are set a group level for each series in a protocol. Dose Alert Checking is enabled at the global level. A separate Alert Value can be set for adults and pediatrics if desired. The systems arrives with the Alert Checking enabled for CTDIvol at a value of 1000 (mGy) per requirement of the FDA. Sites need to assign a Dose Check Administrator and setup AV Exceeding privileges for users prior to any physics testing or clinical scanning. **If no one has AV Exceeding privileges, you will not be able to continue scanning in an exam once the AV value has been reached for any z location in the exam.**
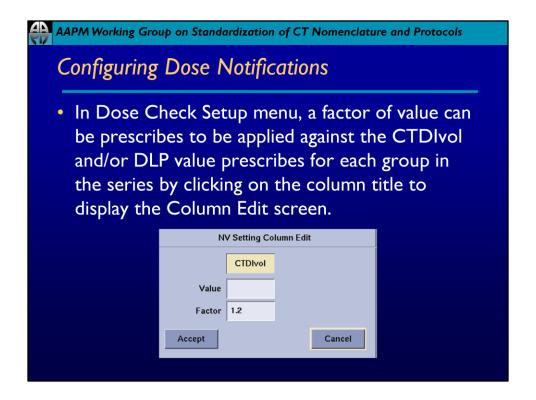
Notification Checking is enabled in the Dose Check Management Tool. NV Checking can be enabled based on CTDIvol and/or DLP value entered in a protocol.
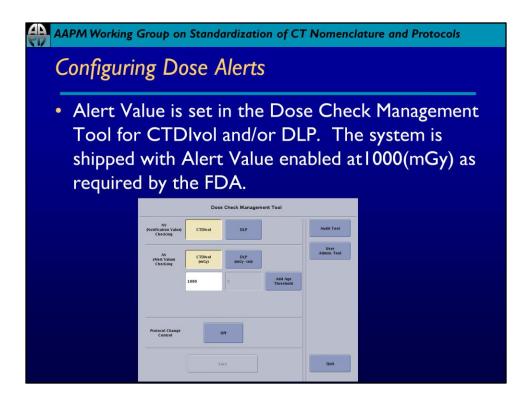
Notification Values are defined by Series for group in the series. Select Setup in the Dose Information area in Protocol Management. The display of N in the field indicated no value entered and NV checking will not be applied.
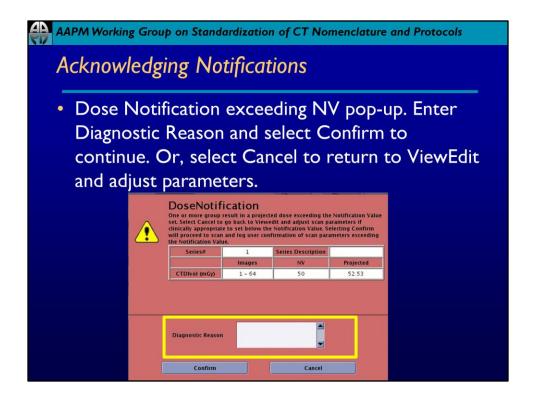
The NV value can be set to a specific value for the CTDIvol and/or DLP prescribed in the protocol. A NV for SmartPrep can be set separately or NV Checking can be turned off for SmartPrep mode by entering N.

Configuring Dose Notifications

- In Dose Check Setup menu, a factor of value can be prescribes to be applied against the CTDIvol and/or DLP value prescribes for each group in the series by clicking on the column title to display the Column Edit screen.

The NV value can be set as a specific value or factor for the CTDIvol and/or DLP prescribed in the protocol by clicking on the NV title bar. Enter a value in Value or Factor text field.

The Alert Value (AV) is set in the Dose Check Management Tool in Protocol Management. A global Alert Value can be set for CTDIvol and/or DLP. The maximum value of 2000(mGy) can be entered for AV. The AV value is applied to all exam types including interventional studies.

The NV Exceeding pop-up is displayed when the NV value exceeds value set in the protocol. To continue scanning, the user needs to enter a Diagnostic Reason. Or, return to the ViewEdit screen and adjust parameters until the Notification Value is no longer exceeded.
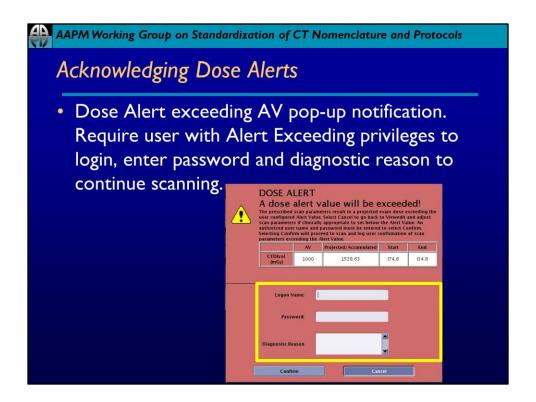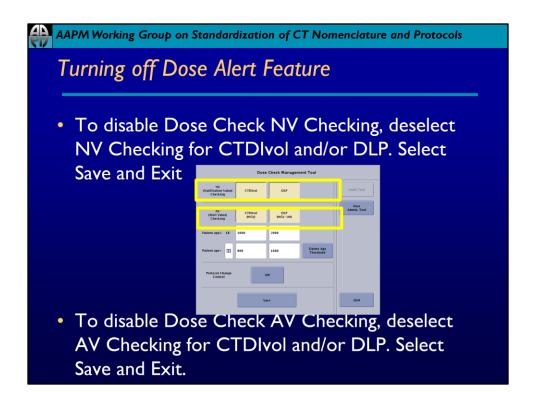
Acknowledging Dose Alerts

- A Dose Check Administrator must be selected and Alert Exceeding privileges assigned before acceptance testing by physicists or clinical scanning starts.
- Alert Exceeding privileges are assigned by the Dose Check Administrator in User Admin Tool selected in Dose Check menu.
- Site needs to determine how to handle an AV notification in interventional exams.
- GE Service will assist the Dose Check Administrator to initially enter User Admin Tool to assign privileges.
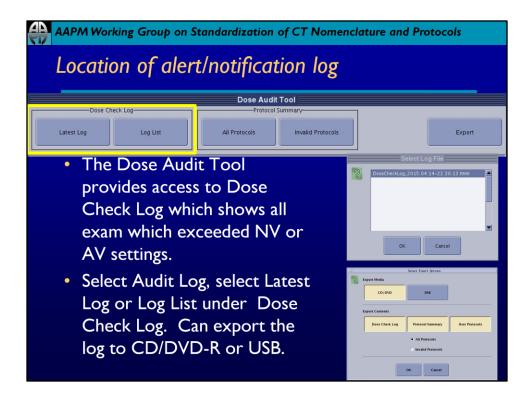
A Dose Check Administrator must be selected and Alert Exceeding privileges assigned prior to use of the system. Site needs to determine how instances of an exceeding Alert will be handled for interventional exams. **Prior to starting an interventional exam, operator must know the procedure for overriding an exceeding AV alert so the procedure can continue without interruption.**
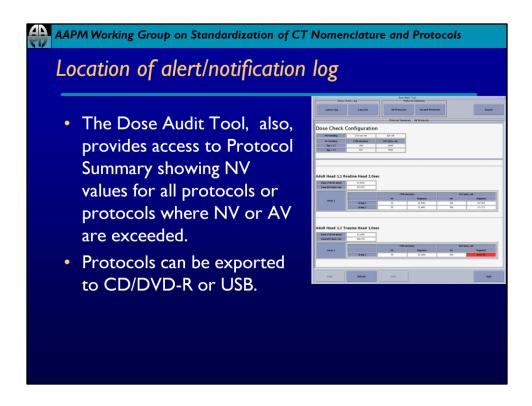
The exceeding AV notification pop-up requires that a user with Alert Exceeding privileges login, enter password and a diagnostic reason to be able to continue scanning.
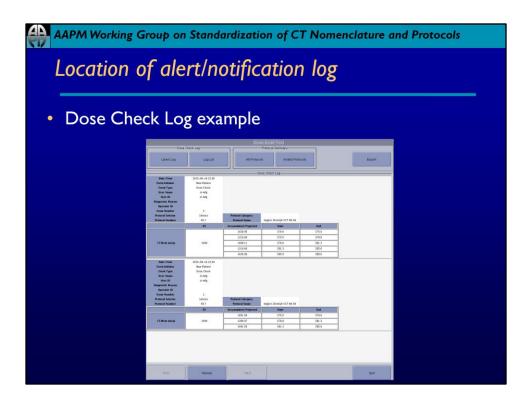
NC Checking and AV checking can be disabled individually in the Dose Check Management Tool. After making changes select Save and Exit.

Dose Audit Log allows for selection of Latest Log or select log from available list. The Audit Log can then be exported to CD/DVD-R or USB. Select Export to export.

Dose Audit Tool provides ability to export protocols, protocols with exceeding NV and AV values to CD/DVD-R or USB.

The Dose Check Logs provides list of events for exceeding NV and AV with diagnostic reason.