

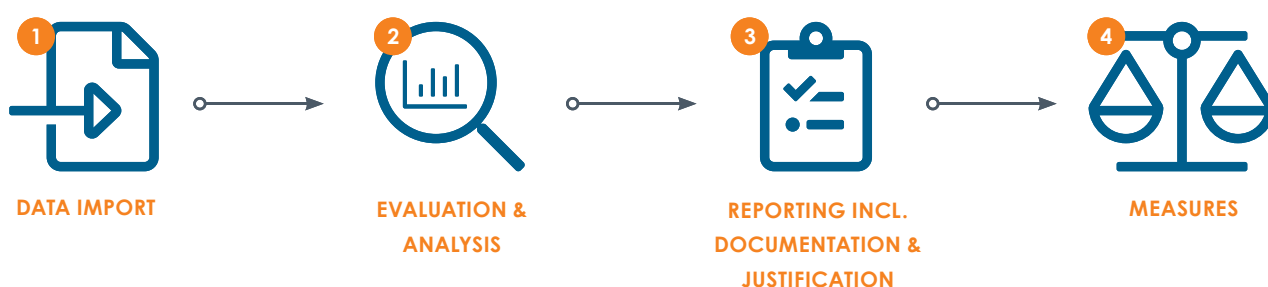
iQ-DOSE 1.1.3

Efficient Radiation Dose Management

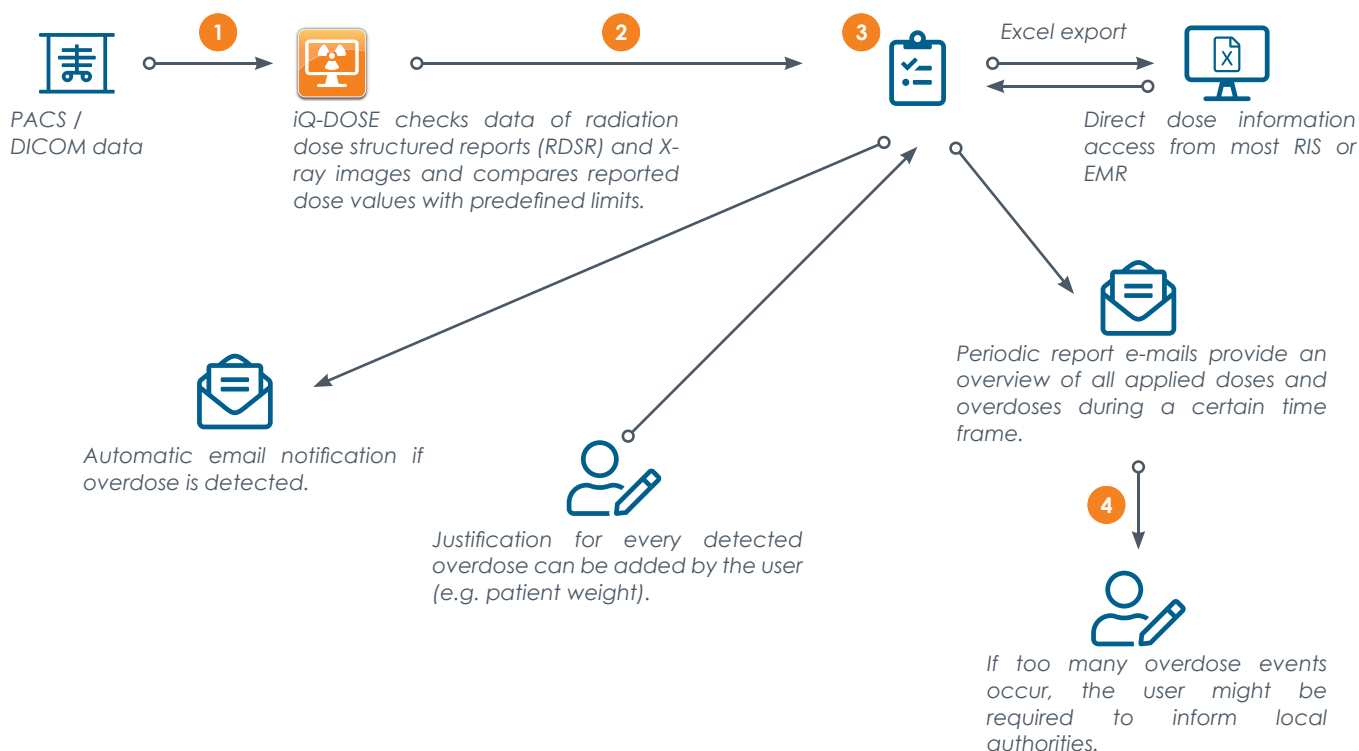
Protecting the patient from superfluous exposure to radiation is the goal behind legal regulations and guidelines, such as the FDA's "Initiative to reduce unnecessary radiation exposure from medical imaging", EURATOM 2013/59 or other country-specific radiation protection laws. However, it can be challenging to identify a potential overdose as it always depends not only on the modality and the examined body part but also on the patient's age and weight.

iQ-DOSE helps you to automatically monitor and document the radiation dose of CT, X-ray, mammography and fluoroscopy imaging procedures and keeps you informed in case a radiation dose exceeds the predefined limits.

How does it work?



Radiation Dose Structured Reports (RDSR) of CT and fluoroscopic procedures as well as X-ray images will be automatically forwarded from any PACS to iQ-DOSE. The received radiation exposure data is then analyzed by iQ-DOSE and compared with stored reference values. The system notifies the user (e.g. radiation protection officer) via email in case an overdose is detected. Any intended or unintended overdose can be easily documented for legal and quality assurance reasons. Data can be exported to Excel for further analysis.



iQ-DOSE 1.1.3

Highlights

- Automatic monitoring, documentation and analysis of patient radiation dose information
- Vendor-neutral solution compatible with any PACS
- Support of most CT, XA, RF, CR, DX and MG devices
- Customizable dose alarm threshold per procedure, modality, body part and age to meet local reporting duties
- Display of reportable events (NEW!)
- Clear visualization of evaluation results through traffic light colors
- Adjustable display of evaluation results according to user preferences (filter options)
- Display of the average dose for the last studies of the same type (NEW!)
- Automatic overdose notification e-mails
- Overdose justification option by selecting created text macros or using free text
- Daily, weekly or monthly report e-mails
- Export of monitoring results via .csv for further processing, e.g. in Excel
- Licensing: Single computer license for 2, 5, 10 or 100 imaging devices (Windows 10 or Windows Server)
- Limitations of use: Not suitable for dose monitoring of procedures of babies under one year of age

iQ-DOSE Monitor

#	Result	Is reportable	Justification	Patient ID	Accession Number	Patient's name	Sex	Modality
1	OK	No		PID-20130	10030	Thomas, Lovetta	F	AGD
2	OK	No		PID-20062	10653	Johnson, Kathy	F	CR
3	OK	No		PID-20049	10770	White, Gale	M	CR
4	Overdose	No	Adiposity	PID-20067	10521	Taylor, Justin	M	DX
5	OK	No		PID-20076	10944	Thomas, Chester	M	CR
6	Overdose	No		PID-20056	10548	Martin, Paul	M	CR
7	OK	No		PID-20104	10910	Hernandez, Kenneth	M	CR
8	Multiple overdose	No		PID-20094	10749	Lee, David	M	CR
9	OK	No		PID-20138	10269	Martinez, Patricia	F	CR
10	OK	No		PID-20069	10474	Martin, Cheryl	F	CR
11	OK	No		PID-20063	10543	Martin, Donald	M	CR
12	OK	No		PID-20078	10864	Taylor, Nancy	F	CT
13	OK	No		PID-20124	10329	Thompson, Loretta	F	CT
14	OK	No		PID-20088	10241	Brown, Nancy	F	CT
15	OK	No		PID-20089	10804	Roberson, Leslie	F	CT

iQ-DOSE identifies body parts and procedures in a smart way and compares dose values with the preset dose limits. The dose monitor then lists the evaluation results of all performed studies indicating the different overdose levels in a color-coded way. All columns can be shown, hidden or sorted to the user's liking.

Overdose Justification

Modality: CT
 Weight: 72
 Pregnancy status: Unknown

Justification:

- Unexpected deterministic effect
- Person mix-up
- Adiposity
- Complicated medical procedure
- Special medical indication
- Wrong device protocol

User:

Buttons: Open in viewer, Save, Cancel

The reason for any overdose event can be rapidly documented.

Periodic status reports

iQ-DOSE Settings

General

Info: All high overdoses will be reported immediately. This section only configures the sending of the status report.

Radio buttons: Daily, Weekly, Monthly (selected)

Info: With this configuration interval you receive a monthly report e-mail which contains a summary of the last month and is always send on the first day of the following month.

Automatic dose status reports help you to keep track of your overdose events. You decide if you want to receive them daily, weekly or once a month and who will get these e-mails.

Stamp of sales partner